

## REGIONAL INFORMATION REPORT 3A03-13

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Alaska Department of Fish and Game  
Division of Commercial Fisheries  
333 Raspberry Road  
Anchorage, Alaska 99518

May 2003

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### **Subsistence and Personal Use** **Salmon Harvests in the Alaska Portion** **Of the Yukon River Drainage, 2002**

by

**Audra L. J. Brase**

**Helen H. Hamner**

SUBSISTENCE AND PERSONAL USE  
SALMON HARVESTS IN THE ALASKA  
PORTION OF THE YUKON RIVER DRAINAGE, 2002

By

Audra L. J. Brase

and

Helen H. Hamner

Regional Information Report<sup>1</sup> No. 3A03-13

Alaska Department of Fish and Game  
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## **ACKNOWLEDGMENTS**

The authors would like to acknowledge and thank the 2002 Yukon River survey crew leader Eryn Kahler and surveyors Amy Marsh and Pete Robinson. Without their hard work and dedication this report would not be possible. Bill Busher is commended for his coordination and leadership in the issuance of subsistence and personal use permits and entry and editing of the data. Thanks to Pat Costello for producing the 2002 harvest survey calendars.

The authors also acknowledge Bonnie Borba, Fred Bue, Tracy Lingnau, Susan McNeil and Shane StClair for providing constructive comments during reviews of this report.

## **SPONSORSHIP**

This investigation was partially funded by U.S./Canada salmon research Cooperative Agreement Award Number NA76FP0208-1.

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## ABSTRACT

The Yukon Area is defined to include all waters of Alaska within the Yukon River drainage and all coastal waters of Alaska from Point Romanof southward to the Naskonat Peninsula. To estimate the subsistence salmon harvest from villages throughout this area, the department conducts an annual voluntary harvest assessment program. The 2002 program included postseason household interviews, subsistence and personal use permits and subsistence harvest calendars. Surveyors contacted approximately 900 households in the surveyed villages throughout the Yukon Area in 2002. Classical stratified random sampling methods were used to estimate the average number of fish caught by each of the five defined use groups in each community. This method was used to estimate the total number of fish caught by community, district and the Yukon Area. Approximately 43,900 chinook, 87,200 summer chum, 19,700 fall chum, 15,500 coho salmon and 121,800 other fish (pink salmon, whitefish, sheefish and northern pike) were harvested throughout the Yukon Area including coastal communities. The Yukon River subsistence harvest, excluding the coastal communities of Hooper Bay and Scammon Bay was approximately 42,700 chinook, 72,400 summer chum, 19,400 fall chum and 15,300 coho salmon. These estimates were calculated from harvest information collected from over 900 households (81% of the total selected to be surveyed), and 339 returned permits (92% of issued permits). The most common gear types used throughout the Yukon Area were set gillnets (58%) followed by drift gillnets (29%), fish wheels (8%), and other gear (5%). Salmon were harvested throughout the Yukon Area, with the largest harvests occurring in District 5 for chinook and fall chum salmon, District 1 for summer chum salmon and District 6 for coho salmon. Approximately 190 households reported feeding an estimated 33,600 salmon to 5,750 dogs.

**KEY WORDS:** chinook, chum, coho, harvest, northern pike, personal use, salmon, sheefish, subsistence, Tanana River, whitefish, Yukon River

## INTRODUCTION

The Yukon Area is defined to include all waters of Alaska within the Yukon River drainage and all coastal waters of Alaska from Point Romanof southward to the Naskonat Peninsula (Figure 1). For management purposes, the Yukon Area is divided into seven districts and ten subdistricts. The Lower Yukon Area consists of the coastal waters of the Yukon Area and the Yukon River drainage from its mouth to Old Paradise Village, and is composed of Districts 1, 2 and 3. The Upper Yukon Area consists of the Yukon River drainage upstream of Old Paradise Village to the Canadian border and is divided into Districts 4, 5 and 6. The Coastal District includes the remainder of coastal Yukon Area waters not included in District 1.

Five species of Pacific salmon are found in the Yukon River drainage: chinook *Oncorhynchus tshawytscha*, chum *O. keta*, coho *O. kitsutch*, pink *O. gorbusch*, and sockeye *O. nerka* salmon. Most subsistence and personal use harvests are made up of chinook, chum and coho salmon. The chum salmon return consists of two temporally and genetically distinct stocks: early (summer chum) and late (fall chum).

Salmon have long been traditionally harvested on the Yukon River for subsistence use western cultural influence. In addition to human consumptive uses, salmon are fed to dogs, which are used for recreation, transportation and as haul animals. Today the practice of keeping sled dogs is more common in the Upper Yukon Area than in the Lower Yukon Area. A gradual reduction in the need for salmon as dog food began around 1930 when the airplane began replacing the sled dog as a primary mail and supply carrier, this decline was further accelerated in the 1960s with the introduction of snow machines to Interior Alaska (Andersen 1992). Beginning in the early 1980s, an interest in the recreational use and racing of sled dogs was renewed, thereby increasing the number of subsistence salmon harvested for dog food.

Commercial fishing in the Upper Yukon River began in 1974 (ADF&G 2001). From 1974 through 1977 the sale of roe from subsistence caught salmon was legal. Subsistence harvested salmon or their eggs can no longer be legally bought or sold under the State of Alaska regulations. However, commercially harvested salmon may be retained for subsistence use.

any communities located throughout the Yukon River drainage. Residents in these rural communities are primarily of Yupik Eskimo and Athabaskan Indian descent. The 2000 census indicated that the rural (Non-Fairbanks North Star Borough) resident population of the Yukon Area was approximately 13,600 people (U.S. Census Bureau). This was a five percent decline in the total rural Yukon Area population from the 1990 census estimate of 14,300 residents.

Yukon Area subsistence and personal use fishermen use mainly drift gillnets, set gillnets, and fish wheels to harvest salmon. Set gillnets are utilized throughout the Yukon Area, whereas drift gillnets are only allowed from the Yukon River mouth to 18 miles below the community of Galena. Although fish wheels are a legal gear type for subsistence fishing throughout the drainage, they are essentially used only in the Upper Yukon Area, where water conditions are suitable for fish wheels and ample supplies of wood timbers are available for construction.

Subsistence salmon fishing activities in the Yukon Area typically begin in late May and continue through early October. Salmon fishing in May and October is highly dependent upon river ice conditions. Fishing activities are usually based from a fish camp or a home village. Extended family groups, representing two or more households, often work together to harvest, cut, and preserve salmon for subsistence use. Some households from communities not located along the mainstem Yukon River, such as Shageluk, operate fish camps along the mainstem Yukon River.

Although most subsistence and personal use salmon harvested in the Yukon Area originate from Yukon River drainage stocks, communities within the Coastal District may harvest stocks bound for other areas. A salmon mark-recapture study conducted in marine waters near Hooper Bay in 1986, documented the presence of Norton and Kotzebue Sound chum salmon stocks in the area (Kerkvliet 1986). The tagging study also showed that 89% of the recovered tagged summer chum salmon were of Yukon River origin.

Most of the chinook salmon harvested for subsistence use are dried, smoked or frozen for later human consumption. However, small chinook ("jacks"), summer chum, fall chum and coho salmon are primarily harvested to feed dogs in the Upper Yukon Area (Andersen 1992). Most subsistence salmon used for dog food are dried (summer chum salmon) or "cribbed" (frozen in the open air) in the case of fall chum and coho salmon. In the Lower Yukon Area, dogs are often fed scraps that become available during the processing of freshly harvested salmon; relatively few whole fresh salmon are fed to dogs.

During a commercial fishing season, many Yukon Area residents participate in both commercial and subsistence harvest activities. Restrictions on subsistence salmon fishing may be required during a commercial salmon fishing season to assist in the enforcement of commercial fishing regulations. However, during a typical salmon fishing season, substantially more time is allowed for subsistence fishing than for commercial fishing. State regulations dictate that subsistence is the highest priority use of salmon and is a primary consideration in fishery management actions. State subsistence regulations have changed substantially in recent years due in part to declining run strength (Appendix C).

Documentation of the 2002 Yukon Area subsistence and personal use salmon and non-salmon harvest is essential to effectively manage the fishery. Most subsistence users throughout the Yukon River drainage are not required to record or report their harvest on permits; therefore the annual survey is the only method of estimating their harvest and use.

## METHODS

### *Postseason Interviews*

The 2002 survey interview program was designed to provide an estimate of the salmon harvested by subsistence fishing households throughout the Alaskan portion of the Yukon River drainage. Primary components of the survey program were postseason interviews and follow-up telephone or postal surveys.

A database of Yukon Area households (*families* database) is maintained and updated by using previous years' survey information and information collected from other sources. Knowledgeable individuals in each community are typically contacted to review the department's household list. The department uses various village census lists, telephone and utility lists, as well as the Alaska Permanent Fund Dividend application list. The database is used to determine whether a household will be sampled in the survey.

The *families* database formed the framework for the stratified random sampling program. Each household in the database was assigned to a subsistence harvest category (strata). These strata were identified by average harvest categories of: *Unknown*, *Do Not Fish*, *Light*, *Medium*, or *Heavy*. In 2002, households with historical harvest information were placed in a harvest category based upon their average annual harvest of salmon from the two recent years in the time period 1995 to 2001. The years of 1998 and 2000 were excluded as a basis for reclassification of households harvest categories because of low returns of salmon and subsequent lower harvests and because of subsistence restrictions implemented during the fall season. If household harvest information was not available for two recent years, the household use group classification was left unchanged. In the Lower Yukon Area, an average harvest of 1 to 200 salmon was considered *Light*, a harvest of 201 to 500 salmon was considered *Medium*, and a harvest greater than 500 salmon was considered *Heavy*. In the Upper Yukon Area, an average harvest of 1 to 100 salmon was considered *Light*, a harvest of 101 to 700 salmon was considered *Medium*, and a harvest greater than 700 salmon was considered *Heavy*.

A stratified random sample (Cochran 1977) of households was drawn from the stratified population. In general, strata sample sizes were established based upon the level of harvest: 100% of the households in the *Unknown*, *Medium* and *Heavy* harvest categories and 30% of the households in the *Light* and *Do Not Fish* harvest categories were identified to be sampled during the 2002 survey. Further, if any stratum sample size obtained using these guidelines contained five or fewer households, the sample size was made equal to the stratum size. All households were sampled in survey communities with 40 or fewer households. The percentage households sampled was increased to 50% for the *Light* harvest category in Emmonak, Holy Cross, Pilot Station and Tanana to improve the precision of the harvest estimate.

In 2002, surveyors traveled to 34 Yukon Area village communities between September 5 and October 31 to conduct postseason interviews. Before conducting survey interviews, surveyors were trained in surveying technique and provided with techniques about how to get the best information possible from people who may not know the exact numbers of fish they have harvested or are not

used to quantifying fish in numerical terms. In addition, the surveyors were trained in salmon species identification, as local names for salmon vary throughout the drainage. For example, fishermen in portions of the Upper Yukon Area use the term “chinook” to refer to coho salmon and “king” to refer to chinook salmon. During the postseason interviews, both the surveyors and the surveyed individuals contribute to the quality of the estimate. Surveyors have a responsibility to attempt to contact all the selected households, ask questions consistently and understandably, and foster a cooperative atmosphere.

Interview questions were designed to provide a quantitative and qualitative assessment of each household’s subsistence salmon harvest (Figure 2). Household members were asked questions such as: their total salmon harvest and use (by species) for the season, and the gear, and areas fished. To determine distribution of fish within a village, households were asked how many families had fished together and whether the families had been provided any salmon from other households or from the various test fisheries projects. Households were also asked how many salmon were harvested for dog food and whether the household’s subsistence needs were met. In 2002 surveyed households were asked whether they attempted to subsistence salmon fish with a dip net, this new gear type had been allowed for the first time in 2002 and fishery managers wanted to know how many fishers may have taken advantage of the opportunity. After the interview was completed survey participants were given a small token of appreciation (carabineer key ring) for participating in the survey.

Survey questions concentrated on chinook, summer chum, fall chum, and coho salmon, but households were also asked about their harvest of pink salmon as well as other miscellaneous non-salmon species. Reported harvests of whitefish *Coregonus spp.*, northern pike *Esox lucius*, and sheefish *Stenodus leucichthys* were expanded to obtain estimates of total harvests for surveyed communities. The reported harvests of other non-salmon species were not expanded because of the limited information that is usually obtained.

Yukon Area households were stratified according to household salmon harvests and not based on household use. However, an estimate of total salmon use was generated from the various components of the survey questions. Estimated use includes salmon harvested and used by that household as well as fish received from other individuals or test fisheries projects. The use of salmon is addressed in the post-season survey primarily as a method of estimating the use of salmon from commercial harvests or carcasses available from commercial salmon roe fisheries.

Telephone interviews were attempted for those households who were identified to be surveyed, but were not contacted by surveyors while in the community. Contact was attempted with these households on at least three different days and three different times. If the surveyor was still unable to contact a knowledgeable individual in the household, a survey questionnaire, including a postage-paid return envelope, was mailed to that household.

### *Calendars*

Prior to the start of the 2002 salmon fishing season, the department distributed subsistence harvest calendars via two mass mailings to approximately 440 Lower Yukon and 260 Upper Yukon Area households that were identified in the Yukon Area *calendar* database as having returned a calendar

at least once in the last ten years. This was a departure from past years' methods when a calendar was mailed to every household in the Yukon River. The change was made because of very low response rates as well as the high cost of the mass mailings. Additional calendars were made available to households upon request from department area offices in Emmonak and Fairbanks. The calendars provided space for fishermen to record their daily salmon harvest by species. Harvest information from calendars returned before or during the subsistence survey is used to reduce the need for recall during postseason surveys and may be used as the primary source of harvest data when contact is not made with the selected household. Additionally, calendars provide data for assigning the household to the various harvest strata in the *families* database. This is particularly crucial for households that are not selected for interviews in a given year.

In an effort to improve calendar returns during surveys of the villages, posters were sent to village post offices to remind fishermen to have their harvest calendars available for the surveyors. Additionally, announcements notifying fishermen of the surveyors' schedule were broadcast over local radio stations before the surveyors' arrival in the village. In addition, everyone who returned a properly filled out subsistence survey calendar became eligible for two \$100 lottery prizes.

### *Permits*

In select areas of the Yukon River drainage households are required to obtain subsistence or personal use fishing permits before conducting fishing activities. Permits are issued for fishing in a portion of District 5 and all of District 6 (Tanana River). Permits were issued from department area offices in Fairbanks, Delta Junction, and Tok. In addition, permit applications for the current season were mailed to all users who returned their permits from the previous season. Subsistence permit applications sent to communities other than Fairbanks included a letter explaining how to apply by mail, a postage paid return envelope and a schedule of when a department representative would be present in select villages if the applicant preferred to be issued a fishing permit in person. Permit issuing trips were conducted in the villages of Central, Circle, Delta Junction, Dot Lake, Eagle, Manley, Minto, Tanacross, Tok, Nenana and Northway.

Permit holders were required to keep a record of their daily fish harvest on the permit and return the permit to the department within ten days of the expiration date. Households with outstanding expired permits who did not report their required harvest information were mailed reminder letters generally two weeks apart in two attempts to collect the information. Telephone contact was attempted with households that did not respond to the reminder letters. Harvests were tabulated postseason for all permit holders who returned their permit, returned a completed reminder letter, or verbally reported their harvest information. These results were not expanded for users who did not return their permits.

### *Statistical Methods*

In the post season survey, classical stratified random sampling methods (Cochran 1977) were used to estimate the average and total number of fish caught by each of the five use groups in each surveyed Yukon Area community.

Denote that

$N_{kj}$  = number of households in  $j$ th ( $j = 1 \dots 5$ ) user group of the  $k$ th community

$n_{kj}$  = number of sample households in the  $j$ th user group of the  $k$ th community

$y_{kji}$  = response of  $i$ th sample household ( $i = 1 \dots n_{kj}$ ) in the  $j$ th user group of the  $k$ th community

Mean response of the  $j$ th user group of the  $k$ th community ( $\bar{y}_{kj}$ ) is

$$\bar{y}_{kj} = \frac{\sum_{i=1}^{n_{kj}} y_{kji}}{n_{kj}}$$

and its standard error ( $SE_{kj}$ ) is

$$SE_{kj} = \sqrt{\frac{s_{kj}^2}{n_{kj}} \left( \frac{N_{kj} - n_{kj}}{N_{kj}} \right)} \text{ where } s_{kj}^2 = \frac{\sum_{i=1}^{n_{kj}} (y_{kji} - \bar{y}_{kj})^2}{n_{kj} - 1}$$

The estimate of total responses of the  $k$ th community ( $\hat{T}_k$ ) is

$$\hat{T}_k = \sum_{j=1}^5 N_{kj} \bar{y}_{kj}$$

and its 95% confidence interval (95%CI<sub>k</sub>) is

$$95\%CI_k = 1.96 \cdot \sqrt{\hat{V}(T_k)} \text{ where } \hat{V}(T_k) = \sum_{j=1}^5 N_{kj}^2 \left( \frac{N_{kj} - n_{kj}}{N_{kj}} \right) \left( \frac{s_{kj}^2}{n_{kj}} \right)$$

Because the estimates of the responses in each community are independent from each other, the estimate of survey wide total ( $\hat{T}$ ) is

$$\hat{T} = \sum_{k=1} \hat{T}_k$$

and its 95% confidence interval (95%CI) is

$$95\%CI = 1.96 \cdot \sqrt{\hat{V}(T)} \text{ where } \hat{V}(T) = \sum_{k=1} \hat{V}(T_k)$$

## RESULTS

### *Overall Estimation of Harvest*

Based on the 2002 postseason survey and returned permits (subsistence and personal use) approximately 43,868 chinook, 87,231 summer chum, 19,677 fall chum and 15,509 coho salmon were estimated harvested for subsistence and personal use throughout the Yukon Area (Table 1). These numbers were extrapolated from 913 surveyed households (81% of the total selected), plus 339 returned permits (93% of total issued). The most common gear types used for subsistence and personal use salmon fishing throughout the Yukon Area were set gillnets (58%) followed by drift gillnets (29%) fish wheels (8%) and other gear (5%) (Table 1). Households in District 5 harvested the most chinook and fall chum salmon (Table 1). Approximately 95 surveyed households and 98 permitted households reported feeding subsistence caught salmon to dogs (Tables 2 and 3). The estimated number of salmon retained for dog food (from both surveyed and permitted households) throughout the Yukon Area was 33,823 fish (Tables 3 – 5). Most salmon caught in the 2002 commercial season were sold, however summer chum salmon were not marketable because of low value, therefore approximately 3,740 summer chum salmon were retained from the commercial harvest for subsistence use (Table 1).

### *Postseason Interviews*

Postseason interviews were conducted with 913 households (81% of total selected) (Table 6). Approximately 1,258 households (52%) of the 2,418 households in the survey portion of the Yukon River were estimated to participate in subsistence fishing in 2002 (Table 7). The total population of the surveyed villages was estimated at 9,268 people (Table 8). Based on the postseason interviews approximately 34,626 chinook, 77,864 summer chum, 13,608 fall chum and 4,956 coho salmon were harvested in the surveyed villages (Table 9). Subsistence fishermen reported being given 4,003 chinook, 3,991 summer chum, 395 fall chum and 277 coho salmon from other subsistence fishermen (Appendix A.9). Subsistence fishermen also reported being given 20 chinook and 438 summer chum from commercial fishermen (Appendix A.10). Of the salmon harvested and/or given away to subsistence fishermen approximately 36,755 chinook, 80,117 summer chum, 12,288 fall chum and 4,894 coho salmon were used for subsistence purposes (Table 10). Approximately 121,779 other fish (pink salmon, whitefish, northern pike and sheefish) were harvested throughout the Yukon Area (Table 11). The most common gear for subsistence salmon fishing were gillnets (set and drift) followed by fish wheels and other gear (Table 1). Salmon were harvested throughout the Yukon Area, although most of the subsistence harvest occurred in District 5 for chinook and fall chum salmon, District 1 for summer chum and District 6 for coho salmon (Tables 12 – 15). Approximately 4,392 dogs were estimated to live in the various surveyed Yukon River communities (Table 2). Although dogs are located in over 1,530 Yukon River surveyed households, only about 6% of those households feed fish to dogs. Surveyed households indicated that they fed their dogs approximately 11,398 summer chum, 7,269 fall chum and 2,565 coho salmon from subsistence harvests and 189 summer chum salmon from commercial harvests (Tables 4 – 5). Subsistence salmon needs were not met for 55% of the households that responded (Table 16). Various reasons were given for not meeting their needs:

1) unable to fish because of work, 2) poor run size, 3) fishing was closed when fish were available, 4) gear restrictions, 5) not enough money for boat/net/gas/repairs and/or 4) the schedule didn't allow the users to fish as often as they needed. No subsistence fishing households in the survey area reported using dip nets to harvest salmon.

### *Calendars*

Although data from the returned calendars are not calculated into the Yukon Area harvest estimate (those households are expanded for in the survey results) the data can provide information on harvest trends. Approximately 210 subsistence harvest calendars were collected or returned in 2002 (30% of total issued). Twenty-one percent of the households that returned harvest calendars in 2002 did not fish this season. Approximately 10,500 chinook, 18,600 summer chum, 3,100 fall chum, 1,300 coho salmon and 1,300 other fish (pink salmon, whitefish, etc.) were reported harvested on the calendars (Figure 3). Additional information gathered from completed calendars includes salmon harvests by day. The timing of subsistence harvests can be compared relative to the timing of the salmon run passing through an area. Calendar harvests are typically reported by subsistence fishers in Districts 1 – 4 and a portion of District 5.

### *Permits*

#### **Subsistence**

Approximately 281 subsistence permits were returned from the 2002 season (92% of total issued) (Table 17). Subsistence permit holders reported harvesting 6,981 chinook, 861 summer chum, 3,715 fall chum, 9,500 coho salmon and approximately 4,120 other fish (whitefish, sheefish, burbot, pike, suckers and grayling) (Tables 17 – 18). The most common gear types reported on permits were set gillnets and fish wheels (Table 1). The largest percentage of permits were issued for the Yukon River area near Circle and Eagle (31%) (Table 17). From the permits, 98 households indicated that they fed salmon to dogs (Table 3). The households that indicated how many salmon they put up for dogs reported 12,411 whole salmon were retained for dog food. Additional information gathered from completed permits includes harvest timing data.

#### **Personal Use**

Personal use permits are only issued for the Fairbanks Nonsubsistence Area (Figure 4). Approximately 59 personal use permits were returned from the 2002 season (95% of total issued) (Table 17). Personal use permit holders reported harvesting 126 chinook, 175 summer chum, 3 fall chum, 20 coho salmon and 140 whitefish and suckers (Tables 17 – 18). The most common gear type reported on personal use permits was set gillnets (Table 1). Personal use fishing is defined as the means for the taking of finfish by an individual for consumption as food or use as bait by that individual or his immediate family [5AAC 77.001(f)] and therefore fish caught under

the personal use guidelines may not be fed to dogs. Historically, this fishery was conducted as a subsistence fishery prior to the designation as a non-subsistence area.

## DISCUSSION

The 2002 Yukon Area subsistence harvests for all salmon species decreased from the 2001 levels, except for summer chum salmon, which showed an increase in harvest and was 1% above the most recent five-year average harvest (Appendix B.2). In January 2001, the Alaska Board of Fisheries (BOF) made a determination that the amounts of salmon in the Yukon-Northern Area reasonably necessary for subsistence use. These levels include 45,500 – 66,700 chinook, 83,500 – 142,200 summer chum, 89,500 – 167,100 fall chum and 20,500 – 52,000 coho salmon (Figures 5 – 8). The 2002 harvest of summer chum salmon was within the amount necessary for subsistence as defined by the BOF. However, chinook, fall chum and coho salmon harvests were below the defined amounts necessary for subsistence. The chinook salmon harvest was 15% below, fall chum salmon was 68% below and the coho salmon harvest was 23% below their recent five-year averages (Figures 5, 7 and 8). The trend of overall decline in subsistence salmon harvests is illustrated in Figure 9.

Although the results of the 2002 post season survey indicate that the chinook salmon harvest was below average, fishers reported throughout the summer season on both the Yukon River Fisheries Drainage Association (YRDFA) teleconferences and the USFWS inseason survey in Emmonak, Nulato, Huslia and Galena that they were meeting their needs in a timely manner and they, in general, felt the 2002 run was better than 2001 (Hander and Holder 2003). The quality of the chinook salmon was also reported to be better in 2002 with many “fat” fish and few fish with sores and scarring. There were many reports of small “jack” (immature) chinook salmon throughout the drainage; these observations were confirmed through inseason and post season age structure analysis. During analysis of the harvest numbers produced in this report, it was suggested by a Tanana resident that families often do not report “jack” and/or diseased chinook salmon as part of their total chinook salmon harvest as these fish are not desirable and often are not used for human consumption.

In 2002, the Yukon River was ice-free on May 24; this was an average date for ice out. Early in the season water levels were high, but the debris load appeared to be moderate. During the weekly YRDFA teleconferences, there were few complaints about poor fishing conditions because of debris in the water. Throughout the summer and fall seasons the weather in the Yukon Area was atypical, with high-pressure systems, warm temperatures, low rainfall and low water levels. These weather patterns continued to contribute to good fishing conditions.

One other factor that may have contributed to the seemingly low chinook salmon subsistence harvest may have been the distribution of households among the harvest group strata. From 2001 to 2002 there was an overall decrease in the total number of households that could have been selected to sample from 2,643 to 2,418 households (Brase and Hamner 2002). This decrease was due to households moving away from the Yukon Area, deaths and consolidation of households. These changes resulted in 20 fewer “heavy” harvesters and 62 fewer “medium” harvesters in 2002. Since

the medium and heavy harvest groups typically make up the majority of the harvest, the reduction in those numbers may have had a significant effect on the apparent harvest. Because harvest patterns appear to be changing in these years of low returns, analyses are being performed to ascertain if the harvest group strata should be redefined for the 2003 survey.

Even though the total harvests of chinook, fall chum and coho salmon were not within the defined "amounts necessary for subsistence" 45% of the surveyed households indicated that their overall needs were met in 2002 (Table 16). The survey did not attempt to determine if a household's needs were met for each particular salmon species. Therefore a household's needs may have been met in terms of chinook salmon, but may have fallen short in terms of fall chum salmon, thereby leaving them overall short of their harvest goals for the season. Approximately 55-56% of the surveyed households indicated that their needs were not met in 2002 and 2001 respectively (Appendix B.11); this percentage was higher than the 1992-2001 average of 41%.

Perceptions of run quality varied throughout the drainage. Lower Yukon Area households were more likely to respond that they felt the salmon runs were average to above average in quality, whereas Upper Yukon Area households were more likely to respond that the salmon runs were below average to poor in quality (Table 16). Chinook salmon are valued among all users as the primary human consumptive salmon species and harvests in the Upper and Lower Yukon Areas are fairly similar. Chinook and summer chum salmon provide for the majority subsistence salmon needs in the Lower Yukon Area, Whereas households in the Upper Yukon Area harvest larger numbers of fall chum and coho salmon to feed their sled dogs, therefore the fall season closures likely had a more negative impact upon them than on the Lower Yukon Area fishers.

The department began inquiring during the 1992 postseason survey whether households' subsistence salmon needs had been met that year. Responses to these questions have revealed that even in years of relatively good salmon returns, based on escapement, approximately 20 - 30% of the households will state that their needs were not met. However, this line of questioning included all surveyed households regardless of whether they actively fished that season or not. In years of extremely poor returns, as expected, the responses of those households who had not met their needs increased substantially to as high as 64% in 2000 (Appendix B.11). In years of closures, or restricted commercial fishing opportunity, subsistence fishermen tend to indicate that their needs had not been because commercial fishing provides both food and income to many Yukon Area households.

There was a small commercial fishery for chinook and summer chum salmon in the Alaskan portion of the Yukon River drainage in 2002; however there was no commercial fishing for fall chum and/or coho salmon. Typically large numbers of commercially caught fish are kept for subsistence use (Borba and Hamner 2001). The majority of salmon commercially caught but retained for subsistence use were summer chum salmon, with a few commercially caught chinook salmon were retained for subsistence use. The chinook salmon that were retained for subsistence use from the commercial fishery were often "jack" salmon. The lack of a commercial fishery may have contributed to the reduction in the fall chum and coho salmon subsistence harvest. However, the primary factors for low harvests of both these species were low abundance and subsequent management actions taken to conserve the fall chum salmon stocks.

In 2001, the Alaska Board of Fisheries implemented a new subsistence schedule on the Yukon River. This schedule was intended to reduce harvest early in the run when there is a much higher level of uncertainty in projecting the total run abundance, distribute the harvest throughout the run thereby reducing the impact on any particular component of the run and to spread subsistence harvest opportunity among users in years of no commercial fishing. The schedule is based on past fishing schedules and should provide reasonable opportunity for subsistence users to meet their needs during years of normal to below average runs. The goal of the schedule was to provide windows of time during which salmon may migrate upriver with reduced exploitation.

Throughout the interview portion of the 2002 subsistence survey, staff noted various comments pertaining to the schedule, such as: the fishing schedule was too restrictive, fishermen wanted the hours changed, the schedule was a hardship to people with regular work hours, and/or the schedule gave women some time off from cutting fish. In addition, some users noted more competition for fishing sites, since all users in a village had to fish on the same schedule. Although the fishing schedule was more restrictive than what people in certain areas of the Yukon drainage had been used to, some users reported meeting their needs for salmon. In general, there were fewer negative comments about the schedule in 2002 compared to 2001. This may have been due to people getting used to the schedule, as well as the summer season commercial fishery, which allowed them to go back to their "normal" fishing patterns that were in place prior to 2001. During the USFWS inseason survey, several families in Emmonak commented that they did not go subsistence fishing in a particular week because they were participating in the commercial fishery (Hander and Holder 2003). Decisions of this nature may have had an effect on the number of chinook salmon taken for subsistence purposes.

In 2002 the fall chum salmon run entered the Yukon River approximately seven days later than average. This late entry may have been caused by extremely mild fall weather most of the Yukon Area experienced, with above average temperatures and below average rainfall. The typical fall season on-shore westerly winds did not materialize in the Lower Yukon. Traditional knowledge suggests that fall chum salmon move on-shore during these westerly wind events. When significant amounts of fall chum salmon did arrive, approximately 60% of the run entered in two short intense pulses of fish. Approximately 359,600 fall chum salmon passed by the Pilot Station sonar site prior to August 31 (McIntosh *in press*). This was 10% lower than the 2001 passage estimate, as well as 10% below the recent five-year average (1997 – 2001). Inseason, the fall chum salmon run appeared to be less than 350,000 fish. A run of this size is insufficient to provide for a full subsistence salmon harvest according to the regulatory *Yukon Area Fall Chum Salmon Management Plan*. Therefore extensive closures were implemented resulting in very low harvests of fall chum salmon throughout the area.

The extensive closures were a hardship on many Yukon Area residents who depend on the salmon both for themselves as well as their dogs. In the village of Fort Yukon it was reported that some individuals were selected by the tribe to continue to fish for the village, even through the fall season closures. State staff surveyors were told about the illegal fishing in Fort Yukon, but there may also have been illegal fishing occurring in other villages that was not reported. Underreporting of harvest is a challenge the annual subsistence survey has to contend with. In years when there are extensive subsistence fishing closures there may be an increase in

underreporting of harvests, based on the public's incorrect perception that fishermen may be prosecuted based on their survey responses. The purpose of the harvest assessment program is to enumerate the number of fish removed through the subsistence fishery for the purposes of run reconstruction and negotiations with Canada and does not play an enforcement role.

Surveyors traveled through the Yukon Area villages from early September through the end of October. Typically the Upper Yukon is starting to freeze by the end of the survey and people have completed fishing. However, in 2002 the fall was very warm and portions of the Yukon River remained open through December. This protracted fall season may have led some Yukon Area residents to continue to subsistence salmon fish past their average stop time in order to try and harvest some of the late running fall chum and/or coho salmon. It is unknown how many people may have continued to fish into the late fall and therefore the harvest information collected by the surveyors should be considered a minimum.

Although the 2002 mainstem Yukon River fall chum salmon run was weak, the Tanana River fall chum salmon stocks appeared to be near average in run size. The Tanana River mainstem, Toklat and Delta Rivers all met their minimum escapement goals. In addition, approximately 135,700 coho salmon passed by the Pilot Station sonar site prior to August 31 (McIntosh *in press*). This was 2% above the recent five-year average (1997 – 2001). Because the Tanana River fall chum salmon run appeared to be relatively strong and the abundance of coho salmon appeared to be average, fishery managers were able to reopen the Tanana River earlier than the mainstem Yukon River to fall season subsistence fishing. Tanana River subsistence fishermen harvested approximately 3,205 fall chum and 9,519 coho salmon within the Tanana River (Table 1). These harvests were 70% less and 10% more than the recent five year averages respectively.

Fall chum and coho salmon are primarily used to feed sled dogs in the Upper Yukon Area. Even in the face of declining salmon runs the number of dogs in the Yukon Area appear to have been increasing since 2000 (Appendix B.10). Despite this increase in dogs, the numbers of households that reported reporting dogs fed salmon declined from the 2001 survey. More households may be relying on commercial food to feed their dogs rather than salmon. Comments collected during subsistence surveys indicated that the numbers of dogs kept were reduced following the poor salmon returns in 1993 and 1997. However no comments of this nature were noted in the 2002 survey.

Appendices B.1 through B.4 document the historical, annual subsistence salmon harvest from 1991 to 2002 by species and by community of residence. Chinook and coho salmon subsistence harvests have remained relatively stable over the years. However the harvests of summer and fall chum salmon have shown a dramatic decrease in recent years. Appendices B.5 through B.7 document the historical subsistence and personal use harvest from permits issued since 1974 to the present, by species and by permit area. In general, the numbers of Yukon and Tanana River permits issued and the ensuing harvest have been decreasing.

Pink salmon harvest information has been collected in surveyed communities in the Yukon Area since 1994 (Appendix B.9). Although pink salmon are often locally abundant in the Lower Yukon Area they are not typically sought after and harvests remain low. The 2002 pink salmon return and corresponding harvest were above average. Pink salmon have a cyclic fluctuation on

the Yukon River, with even years producing larger returns than odd years. This pattern has been confirmed by the Pilot Station sonar, which counted approximately 77,400 pink salmon in 2002 (McIntosh *in press*), as compared to the 2001 (odd year) total of only 1,300 pink salmon. These numbers should be used only as an index as the sonar project does not attempt to estimate the passage of all pink salmon.

During 2002, the subsistence and personal use harvests of whitefish were 14% above the recent five year average, while sheefish and pike harvests were 3% above the recent five year average (Appendix B.12). Fishermen supplementing their low chum and coho salmon subsistence catch with other fish species may account for some of these increases. During the fall season the harvests of non-salmon species were restricted to small mesh gear only. Without these restrictions even greater increases may have been seen in the harvest of non-salmon species. The department received reports from residents along the Koyukuk River that the four inch set gillnet mesh restriction in place (to conserve fall chum salmon) was too small of a mesh to effectively harvest the large whitefish and sheefish that migrate through the area at approximately the same time as the fall chum salmon.

Although harvests of non-salmon species from subsistence and personal use fisheries within the Yukon Area are included in this report, the estimates may be imprecise because the stratification system used to expand to the total catch is based on a household's historical salmon harvests. The correlation between the level of salmon harvest and the level of non-salmon harvest has not been determined. To improve harvest estimates of non-salmon species, additional strata and sampling designs would need to be identified and developed (Borba and Hamner 1998).

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Table 1: Subsistence and personal use salmon harvest estimates which include test fish harvests provided for subsistence use, fish caught during commercial openings but retained for subsistence use, and related information, Yukon Area, 2002.

Community *	Survey Date or Permit Village	Number of Fishing Households *	Number of Dogs	Estimated Harvest				Primary Gear Used *		
				Chinook	Summer Chum	Fall Chum	Coho	Set Gillnet	Drift Gillnet	Fish Wheels
Hooper Bay	9/11-14	139	253	282	9,780	44	125	47	0	0
Scammon Bay	9/10	67	146	840	5,016	240	123	20	1	0
<b>Coastal District Total</b>		<b>206</b>	<b>399</b>	<b>1,122</b>	<b>14,796</b>	<b>284</b>	<b>248</b>	<b>67</b>	<b>1</b>	<b>0</b>
Nunam Iqua <sup>1</sup>	9/10-11	16	32	393	1,897	284	56	13	1	0
Alakanuk	9/7-9	88	234	1,773	7,637	222	183	16	11	0
Emmonak	9/5-6	73	186	1,751	8,458	1,261	514	14	17	0
Kotlik	9/7-8	77	203	1,686	6,115	114	542	16	7	0
<b>District 1 Subtotal</b>		<b>254</b>	<b>655</b>	<b>5,603</b>	<b>24,107</b>	<b>1,881</b>	<b>1,295</b>	<b>59</b>	<b>36</b>	<b>0</b>
Mountain Village	9/16-18	87	192	1,523	6,657	478	361	5	19	0
Pitkas Point	9/14-15	19	57	566	639	16	47	1	14	0
St. Marys	9/12-15	76	129	2,045	7,284	103	209	1	27	0
Pilot Station	9/19-20	60	117	2,530	6,490	680	230	3	20	0
Marshall	9/21-22	56	353	2,290	2,484	341	386	1	16	0
<b>District 2 Subtotal</b>		<b>298</b>	<b>848</b>	<b>8,954</b>	<b>23,554</b>	<b>1,618</b>	<b>1,233</b>	<b>11</b>	<b>96</b>	<b>0</b>
Russian Mission	9/15-16	47	145	1,887	395	164	115	7	6	0
Holy Cross	9/17	30	81	1,813	155	0	0	2	14	0
Shageluk	9/20-21	15	87	439	1,956	0	0	6	5	0
<b>District 3 Subtotal</b>		<b>92</b>	<b>313</b>	<b>4,139</b>	<b>2,606</b>	<b>164</b>	<b>115</b>	<b>16</b>	<b>26</b>	<b>0</b>
<b>Lower Yukon River Total</b>		<b>644</b>	<b>1,816</b>	<b>18,696</b>	<b>50,167</b>	<b>3,663</b>	<b>2,643</b>	<b>86</b>	<b>157</b>	<b>0</b>
Anvik	9/18-19	17	92	706	1,089	401	0	12	3	0
Grayling	9/22-23	31	85	2,249	1,311	52	30	0	11	0
Kaltag	10/2-3	39	51	1,435	234	314	212	1	11	0
Nulato	10/3-4	52	138	1,773	269	0	78	4	13	0
Koyukuk	10/2-3	7	44	323	426	255	249	2	4	0
Galena	10/1	58	393	1,522	712	349	169	10	10	2
Ruby	10/4-5	15	117	954	1,406	78	69	6	0	3
<b>District 4 Yukon River Subtotal</b>		<b>219</b>	<b>920</b>	<b>8,964</b>	<b>5,447</b>	<b>1,449</b>	<b>807</b>	<b>35</b>	<b>52</b>	<b>5</b>
Huslia	10/9-10	27	184	222	3,178	0	60	9	0	0
Hughes	10/10-11	9	63	67	1,089	0	100	8	0	0
Alakaket	10/10-11	27	123	200	6,242	100	56	9	0	0
Alatna	phone	3	5	3	15	0	0	2	0	0
Bettles	10/9	0	207	0	0	0	0	0	0	0
<b>Koyukuk River Subtotal</b>		<b>66</b>	<b>582</b>	<b>492</b>	<b>10,524</b>	<b>100</b>	<b>216</b>	<b>28</b>	<b>0</b>	<b>0</b>
<b>District 4 Subtotal</b>		<b>285</b>	<b>1,502</b>	<b>9,456</b>	<b>16,971</b>	<b>1,549</b>	<b>1,023</b>	<b>63</b>	<b>52</b>	<b>5</b>
Tanana	10/7-8	40	253	2,379	3,321	6,255	2,032	13	0	6
Rampart	10/14-15	8	13	852	14	0	0	7	0	0
Fairbanks NSB *	permits	40	168	1,767	295	0	0	40	0	0
Stevens Village *	10/29, permits	11	21	1,334	12	0	0	8	0	3
Birch Creek	10/30	3	6	67	0	0	0	2	0	0
Beaver	10/16	11	26	702	77	1	17	6	0	2
Fort Yukon *	10/17-19	36	292	2,348	1,832	3,523	14	6	0	9
Circle	permits	11	80	1,533	5	74	0	5	0	6
Central	permits	4	11	58	0	0	0	4	0	0
Eagle	permits	21	225	1,910	24	339	1	16	0	5
Other <sup>f</sup>	permits	4	62	348	17	100	0	4	0	0
<b>District 5 Yukon River Subtotal</b>		<b>189</b>	<b>1,157</b>	<b>13,298</b>	<b>5,597</b>	<b>10,292</b>	<b>2,064</b>	<b>111</b>	<b>0</b>	<b>31</b>

-Continued-

Table 1. (page 2 of 2).

Community <sup>a</sup>	Survey Date or Permit Village	Number of Fishing Households <sup>b</sup>	Number of Dogs	Estimated Harvest				Primary Gear Used <sup>k</sup>		
				Chinook	Summer Chum	Fall Chum	Coho	Set Gillnet	Drift Gillnet	Fish Wheels
Venetie	10/16-18	10	46	77	13	680	12	8	0	0
Chalkyitsik	10/14-15	6	19	26	0	4	0	3	0	1
<b>Chandalar and Black Rivers Subtotal</b>		<b>16</b>	<b>65</b>	<b>103</b>	<b>13</b>	<b>684</b>	<b>12</b>	<b>11</b>	<b>0</b>	<b>1</b>
<b>District 5 Subtotal</b>		<b>205</b>	<b>1,222</b>	<b>13,401</b>	<b>5,610</b>	<b>10,976</b>	<b>2,076</b>	<b>122</b>	<b>0</b>	<b>32</b>
Manley	permits	9	166	336	93	947	1,617	5	0	4
Minto	permits	11	75	19	10	100	250	10	0	0
Nenana	permits	17	283	511	375	1,070	3,574	7	0	10
Healy	permits	4	105	0	0	831	3,034	3	0	1
Fairbanks NSB <sup>g</sup>	permits	45	95	283	207	232	1,044	37	0	2
Other <sup>h</sup>	permits	20	82	44	2	25	0	16	0	0
<b>District 6 Tanana River Subtotal</b>		<b>106</b>	<b>806</b>	<b>1,193</b>	<b>687</b>	<b>3,206</b>	<b>9,519</b>	<b>78</b>	<b>0</b>	<b>17</b>
<b>Upper Yukon River Total</b>		<b>696</b>	<b>3,530</b>	<b>24,050</b>	<b>22,268</b>	<b>15,730</b>	<b>12,618</b>	<b>263</b>	<b>52</b>	<b>54</b>
Survey Village Subtotal		1,260	4,393	34,926	77,871	13,740	5,077	268	210	26
Subsistence Permit Subtotal <sup>e</sup>		156	1,352	6,683	853	3,715	9,500	110	0	28
Subsistence Test Fish Subtotal <sup>i</sup>		-	-	2,092	4,592	2,219	912	-	-	-
Commercially Caught Subtotal <sup>m</sup>		-	-	41	3,740	0	0	-	-	-
<b>Subsistence Harvests Subtotal</b>		<b>1,416</b>	<b>5,745</b>	<b>43,742</b>	<b>87,066</b>	<b>19,674</b>	<b>15,489</b>	<b>378</b>	<b>210</b>	<b>64</b>
<b>Personal Use Permit Subtotals</b>		<b>30</b>	<b>-</b>	<b>126</b>	<b>175</b>	<b>3</b>	<b>20</b>	<b>28</b>	<b>0</b>	<b>1</b>
<b>Alaska, Yukon River Total <sup>j</sup></b>		<b>1,240</b>	<b>5,346</b>	<b>42,746</b>	<b>72,436</b>	<b>19,393</b>	<b>15,261</b>	<b>348</b>	<b>209</b>	<b>54</b>
<b>Alaska, Yukon Area Total</b>		<b>1,446</b>	<b>5,745</b>	<b>43,868</b>	<b>87,231</b>	<b>19,677</b>	<b>15,509</b>	<b>415</b>	<b>210</b>	<b>54</b>
<b>AK, Yukon Area Percentages of the Total</b>		<b>-</b>	<b>-</b>	<b>26%</b>	<b>62%</b>	<b>12%</b>	<b>9%</b>	<b>58%</b>	<b>29%</b>	<b>8%</b>

Italicized numbers indicate that test fish have been added to the total fish harvested in that village as reported in the post season survey.

<sup>a</sup> Data collected by Alaska Department of Fish and Game (ADF&G), Division of Commercial Fisheries. Survey data is expanded for number of fishing households, number of dogs, and harvest. Permit data is unexpanded, and is from all permits received as of April 1, 2003. The number of dogs is based on information obtained from permits issued, while the number of fishing households and their harvest is based on returned permits.

<sup>b</sup> Estimated number of households that fished in surveyed communities or number of permit households who reported fishing in permit required areas.

<sup>c</sup> Subsistence Permit Subtotal does not include Stevens Village.

<sup>d</sup> Permit harvest information from Stevens Village residents was used to complement the information obtained by the survey.

<sup>e</sup> Fairbanks North Star Borough (Fairbanks NSB) households that obtained a permit and indicated they fished in the Yukon River permit required area.

<sup>f</sup> Other includes residents of Wasilla, Manley, Nenana, Minto and the Upper Tanana River drainage villages of Northway, Tanacross and Tok who obtained a household permit and fished in a Yukon River permit required area.

<sup>g</sup> Fairbanks North Star Borough (Fairbanks NSB) households that obtained a subsistence and/or personal use permit and indicated they fished in the Tanana River permit required area.

<sup>h</sup> Other includes residents of Eagle River, Gakona and the Upper Tanana River drainage villages of Northway, Tanacross, Dot Lake and Tok who fished in the Tanana River.

<sup>i</sup> Test fish given away for subsistence use.

<sup>j</sup> Does not include Coastal District.

<sup>k</sup> Primary Fishing Gear is not expanded for households that were not surveyed.

<sup>l</sup> Formally known as Sheldon or Sheldons Point.

<sup>m</sup> Fish caught during commercial fishing openings but retained for subsistence use.

<sup>n</sup> Includes a community harvest of 900 chinook, 1,600 summer chum and 2,700 fall chum salmon.

Table 2. Estimated number of households with dogs, number of households that feed fish to dogs, numbers of dogs, and corresponding confidence intervals (CI) for surveyed villages, Yukon Area, 2002.

Community	Total Households	Households Contacted	Number of Households with Dogs		Number of Households that Feed Fish to Dogs		Number of Dogs	
			Estimated Total	CI(95%) (+/-)	Estimated Total	CI(95%) (+/-)	Estimated Total	CI(95%) (+/-)
Hooper Bay	201	62	143	21	4	7	253	52
Scammon Bay	82	25	64	12	3	5	146	56
Coastal District	283	87	207	24	7	9	399	76
Nunam Iqua <sup>a</sup>	32	22	14	4	1	1	32	9
Alakanuk	131	38	98	17	0	0	234	88
Emmonak	161	59	95	18	2	4	186	50
Kotlik	90	26	75	11	5	7	203	103
District 1	414	145	282	27	9	8	655	145
Mountain Village	149	38	110	21	0	0	192	57
Pitkas Point	25	20	19	2	0	0	57	13
St. Mary's	118	40	80	16	5	7	129	27
Pilot Station	102	36	56	15	0	0	117	56
Marshall	76	22	62	10	19	12	353	214
District 2	470	156	327	32	24	14	847	230
Russian Mission	63	17	35	14	0	0	145	109
Holy Cross	60	22	27	7	0	0	81	60
Shageluk	33	24	26	3	2	0	87	12
District 3	156	63	88	15	2	0	312	125
Anvik	33	30	24	2	3	0	92	3
Grayling	46	15	31	15	2	0	85	41
Kaltag	58	18	31	12	0	0	51	22
Nulato	94	27	72	16	0	0	138	58
Koyukuk	27	18	13	4	2	1	44	9
Galena	168	51	114	19	2	0	393	226
Ruby	67	18	49	16	1	0	117	23
Huslia	81	21	64	13	2	0	184	51
Hughes	20	17	10	1	3	1	63	18
Allakaket	49	12	16	15	11	15	123	27
Alatna	6	4	3	2	0	0	5	4
Bettles	22	14	13	4	0	0	207	129
District 4	671	245	437	41	26	15	1,502	278
Tanana	102	33	45	19	8	0	253	49
Rampart	16	11	8	1	0	0	13	2
Stevens Village	28	16	9	4	1	1	21	11
Birch Creek	8	5	3	2	0	0	6	7
Beaver	25	17	12	3	1	1	26	8
Fort Yukon	165	46	93	22	13	10	292	90
Venetie	40	27	14	3	3	0	46	8
Chalkyitsik	40	27	14	4	0	0	19	6
District 5	424	182	197	30	26	10	677	104
Survey Totals	2,418	878	1,538	72	95	25	4,392	428

<sup>a</sup> Formally known as Sheldon or Sheldons Point

Table 3. Household and dog information reported by subsistence and personal use permits issued and returned, listed by fishery and by community of residence, Yukon Area, 2002. <sup>a</sup>

Community	Permit Information				Reported Household Information (based on permits issued)					
	Permits		Percent Returned	Numbers of Permits Returned that Fished	Number of People	Number of Fishermen	Number of Households with Dogs	Number of Dogs	Number of Households Feeding Whole Salmon to Dogs	Number of Whole Salmon Fed to Dogs
	Issued	Returned								
Subsistence Use Permits										
Central	10	9	90%	4	16	12	7	11	3	0
Circle	29	23	79%	11	64	36	20	80	8	45
Eagle	43	36	84%	21	105	77	32	225	21	636
FNSB <sup>b</sup>	80	78	98%	57	219	165	46	261	13	978
Healy	6	6	100%	4	23	14	5	105	5	3,737
Manley	12	11	92%	10	32	21	9	169	7	2,529
Minto	45	41	91%	12	154	69	15	108	10	125
Nenana	32	30	94%	17	93	49	26	284	22	4,340
Stevens Village	3	3	100%	3	10	8	3	5	1	8
Upper Tanana Villages <sup>c</sup>	38	37	97%	16	127	69	24	104	7	13
Other <sup>d</sup>	7	7	100%	4	21	14	5	7	1	0
<b>Subsistence Permit Subtotal</b>	<b>305</b>	<b>281</b>	<b>92%</b>	<b>159</b>	<b>864</b>	<b>534</b>	<b>192</b>	<b>1,359</b>	<b>98</b>	<b>12,411</b>
Personal Use Permits										
FNSB <sup>b</sup> , Delta Junction and Nenana	62	59	95%	30	166	95	-	-	-	-
<b>Personal Use Permit Subtotal</b>	<b>62</b>	<b>59</b>	<b>95%</b>	<b>30</b>	<b>166</b>	<b>95</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Permit Totals</b>	<b>367</b>	<b>340</b>	<b>93%</b>	<b>189</b>	<b>1,030</b>	<b>629</b>	<b>192</b>	<b>1,359</b>	<b>98</b>	<b>12,411</b>

<sup>a</sup> As of April 1, 2003.

<sup>b</sup> Fairbanks North Star Borough (FNSB) includes residents from the communities of Ester, Fairbanks, Ft. Wainwright, North Pole, and Saicha.

<sup>c</sup> Upper Tanana Villages include residents from the communities of Delta Junction, Dot Lake, Northway, Tanacross, and Tok.

<sup>d</sup> The category "other" represents residents from any other Alaskan community who were issued a subsistence fishing permit.

Table 4. Estimated number of salmon retained for dog food from subsistence harvests with corresponding confidence intervals (CI) for surveyed villages, Yukon Area, 2002.

Community	Total Households	Households Contacted	Summer Chum Salmon		Fall Chum Salmon		Coho Salmon		Total Salmon
			Estimated Total	CI(95%) (+/-)	Estimated Total	CI(95%) (+/-)	Estimated Total	CI(95%) (+/-)	Estimated Total
Hooper Bay	201	61	0	0	0	0	0	0	0
Scammon Bay	82	25	0	0	0	0	67	109	67
<b>Coastal District</b>	<b>283</b>	<b>86</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>67</b>	<b>109</b>	<b>67</b>
Nunam Iqua *	32	24	0	0	59	46	0	0	59
Alakanuk	131	38	0	0	0	0	0	0	0
Emmonak	161	61	14	21	0	0	0	0	14
Kotlik	90	25	0	0	0	0	30	0	30
<b>District 1</b>	<b>414</b>	<b>148</b>	<b>14</b>	<b>21</b>	<b>59</b>	<b>46</b>	<b>30</b>	<b>0</b>	<b>104</b>
Mountain Village	149	38	0	0	0	0	0	0	0
Pitkas Point	25	19	0	0	0	0	0	0	0
St. Mary's	118	41	5	3	0	0	0	0	5
Pilot Station	102	37	0	0	0	0	0	0	0
Marshall	76	23	216	291	38	64	379	636	632
<b>District 2</b>	<b>470</b>	<b>158</b>	<b>221</b>	<b>291</b>	<b>38</b>	<b>64</b>	<b>379</b>	<b>636</b>	<b>638</b>
Russian Mission	63	17	0	0	0	0	0	0	0
Holy Cross	60	23	0	0	0	0	0	0	0
Shageluk	33	22	620	0	0	0	0	0	620
<b>District 3</b>	<b>156</b>	<b>62</b>	<b>620</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>620</b>
Anvik	33	29	900	0	400	0	0	0	1,300
Grayling	46	15	978	0	0	0	0	0	978
Kaltag	58	18	0	0	0	0	0	0	0
Nulato	94	27	0	0	0	0	0	0	0
Koyukuk	27	21	127	115	0	0	244	0	371
Galena	168	51	337	0	348	0	333	0	1,018
Ruby	67	19	350	0	0	0	0	0	350
Huslia	81	21	1,200	1,358	0	0	0	0	1,200
Hughes	20	18	569	158	0	0	90	0	659
Allakaket	49	13	3,825	733	100	0	30	0	3,955
Alatna	6	5	0	0	0	0	0	0	0
Bettles	22	16	0	0	0	0	0	0	0
<b>District 4</b>	<b>671</b>	<b>253</b>	<b>8,286</b>	<b>1,556</b>	<b>848</b>	<b>0</b>	<b>697</b>	<b>0</b>	<b>9,831</b>
Tanana	102	34	1,233	435	3,711	1,253	1,377	348	6,321
Rampart	16	11	0	0	0	0	0	0	0
Stevens Village	28	20	0	0	6	5	0	0	6
Birch Creek	8	5	0	0	0	0	0	0	0
Beaver	25	18	27	26	13	13	5	5	45
Fort Yukon	165	46	997	729	2,069	1,478	10	10	3,076
Venetie	40	26	0	0	525	0	0	0	525
Chalkyitsik	40	25	0	0	0	0	0	0	0
<b>District 5</b>	<b>424</b>	<b>185</b>	<b>2,256</b>	<b>849</b>	<b>6,324</b>	<b>1,938</b>	<b>1,393</b>	<b>348</b>	<b>9,973</b>
<b>Survey Totals</b>	<b>2,418</b>	<b>892</b>	<b>11,398</b>	<b>2,717</b>	<b>7,269</b>	<b>2,048</b>	<b>2,565</b>	<b>1,094</b>	<b>21,232</b>

\* Formally known as Sheldon or Sheldons Point

Table 5. Estimated number of salmon retained for dog food from commercial harvests with corresponding confidence intervals (CI) for surveyed villages, Yukon Area, 2002.

Community	Total Households	Households Contacted	Summer Chum Salmon		Fall Chum Salmon		Coho Salmon		Total Salmon
			Estimated Total	CI(95%) (+/-)	Estimated Total	CI(95%) (+/-)	Estimated Total	CI(95%) (+/-)	Estimated Total
Hooper Bay	201	61	0	0					0
Scammon Bay	82	25	0	0					0
Coastal District	283	86	0	0					0
Nunam Iqua <sup>a</sup>	32	24	0	0					0
Alakanuk	131	38	0	0					0
Emmonak	161	61	0	0					0
Kotlik	90	25	0	0					0
District 1	414	148	0	0	There was no commercial fishing for fall chum or coho salmon in 2002.				0
Mountain Village	149	38	0	0					0
Pitkas Point	25	19	0	0					0
St. Mary's	118	41	0	0					0
Pilot Station	102	37	0	0					0
Marshall	76	23	189	258					189
District 2	470	158	189	258					189
Russian Mission	63	17	0	0					0
Holy Cross	60	23	0	0					0
Shageluk	33	22	0	0					0
District 3	156	62	0	0					0
Anvik	33	29	0	0					0
Grayling	46	15	0	0					0
Kaltag	58	18	0	0					0
Nulato	94	27	0	0					0
Koyukuk	27	21	0	0					0
Galena	168	50	0	0					0
Ruby	67	19	0	0					0
Huslia	81	21	0	0					0
Hughes	20	18	0	0					0
Allakaket	49	13	0	0					0
Alatna	6	5	0	0					0
Bettles	22	16	0	0					0
District 4	671	252	0	0					0
Tanana	102	34	0	0					0
Rampart	16	11	0	0					0
Stevens Village	28	20	0	0					0
Birch Creek	8	5	0	0					0
Beaver	25	18	0	0					0
Fort Yukon	165	46	0	0					0
Venetie	40	26	0	0					0
Chalkyitsik	40	25	0	0					0
District 5	424	185	0	0					0
Survey Totals	2,418	891	189	258					189

<sup>a</sup> Formally known as Sheldon or Sheldons Point

Table 6. Estimated total number of households, the sample size, the number contacted, and the percentage of the sampled households that were contacted in surveyed villages, by harvest stratum, with village and district totals, Yukon Area, 2002.\*

Community	Unknown				Does Not Harvest Salmon				Light Harvester				Medium Harvester				Heavy Harvester				Community Totals			
	N	n	C	%C	N	n	C	%C	N	n	C	%C	N	n	C	%C	N	n	C	%C	N	n	C	%C
Hooper Bay	2	2	0	0%	92	28	25	89%	93	28	24	86%	13	13	13	100%	1	1	1	100%	201	72	63	88%
Scammon Bay	0	0	0	-	30	9	8	89%	50	15	15	100%	2	2	2	100%	0	0	0	-	82	26	25	96%
Coastal District	2	2	0	0%	122	37	33	89%	143	43	39	81%	15	15	15	100%	1	1	1	100%	283	98	88	90%
Nunam Iqaa <sup>b</sup>	1	1	1	100%	10	10	5	50%	19	19	16	84%	2	2	2	100%	0	0	0	-	32	32	24	75%
Alakanuk	0	0	0	-	53	16	14	88%	71	21	18	86%	7	7	7	100%	0	0	0	-	131	44	38	89%
Emmonak	2	2	1	50%	79	24	21	88%	71	36	30	83%	9	9	9	100%	0	0	0	-	161	71	61	86%
Kotik	0	0	0	-	31	9	8	87%	50	15	13	87%	7	7	5	71%	2	2	2	100%	90	33	26	79%
District 1	3	3	2	67%	173	59	48	78%	211	91	77	85%	25	25	23	92%	2	2	2	100%	414	180	150	83%
Mountain Village	1	1	1	100%	49	15	10	67%	89	27	17	63%	10	10	10	100%	0	0	0	-	149	53	38	72%
Pitkas Point	0	0	0	-	5	5	3	60%	18	18	16	89%	2	2	1	50%	0	0	0	-	25	25	20	80%
St. Mary's	5	5	3	60%	34	10	8	80%	64	19	16	84%	15	15	14	93%	0	0	0	-	118	49	41	84%
Pilot Station	0	0	0	-	47	14	10	71%	51	26	24	92%	4	4	3	75%	0	0	0	-	102	44	37	84%
Marshall	2	2	2	100%	19	6	5	83%	53	16	15	94%	2	2	2	100%	0	0	0	-	76	26	24	92%
District 2	8	8	6	75%	154	50	36	72%	275	106	88	83%	33	33	30	91%	0	0	0	-	470	197	160	81%
Russian Mission	0	0	0	-	24	7	6	86%	37	11	9	82%	2	2	2	100%	0	0	0	-	63	20	17	85%
Holy Cross	0	0	0	-	21	6	3	50%	35	18	16	89%	4	4	4	100%	0	0	0	-	60	28	23	82%
Shageluk	2	2	1	50%	11	11	6	55%	14	14	12	86%	3	3	3	100%	3	3	2	67%	33	33	24	73%
District 3	2	2	1	50%	56	24	18	63%	88	43	37	86%	9	9	9	100%	3	3	2	67%	155	81	64	79%
Anvik	0	0	0	-	17	17	14	82%	13	13	13	100%	3	3	3	100%	0	0	0	-	33	33	30	91%
Grayling	0	0	0	-	13	5	2	40%	26	8	6	75%	7	7	7	100%	0	0	0	-	46	20	15	75%
Katlag	0	0	0	-	15	5	5	100%	40	12	11	92%	3	3	2	67%	0	0	0	-	58	20	18	90%
Nulato	0	0	0	-	50	15	9	60%	37	11	11	100%	6	6	6	100%	1	1	1	100%	94	33	27	82%
Koyukuk	0	0	0	-	11	11	8	73%	14	14	12	86%	1	1	1	100%	1	1	1	100%	27	27	22	81%
Galena	1	1	1	100%	112	34	30	88%	47	14	14	100%	7	7	7	100%	1	1	1	100%	168	57	53	93%
Ruby	0	0	0	-	47	14	9	64%	12	5	4	80%	6	6	6	100%	2	2	2	100%	67	27	21	78%
Huslia	1	1	1	100%	54	16	11	69%	23	7	7	100%	3	3	3	100%	0	0	0	-	81	27	22	81%
Hughes	0	0	0	-	9	9	8	89%	8	8	7	88%	3	3	3	100%	0	0	0	-	20	20	18	90%
Alakaket	0	0	0	-	32	10	4	40%	12	5	4	80%	5	5	5	100%	0	0	0	-	49	20	13	65%
Alatna	0	0	0	-	3	3	3	100%	3	3	2	67%	0	0	0	-	0	0	0	-	6	6	5	83%
Bettles	0	0	0	-	22	22	17	77%	0	0	0	-	0	0	0	-	0	0	0	-	22	22	17	77%
District 4	2	2	2	100%	385	161	120	76%	235	100	91	91%	44	44	43	98%	5	5	5	100%	671	312	261	84%
Tanana	3	3	2	67%	69	21	12	57%	17	9	8	89%	5	5	5	100%	8	8	8	100%	102	46	35	76%
Rampart	1	1	0	0%	6	6	5	83%	6	6	5	83%	2	2	2	100%	1	1	0	0%	16	16	12	75%
Stevens Village	3	3	1	33%	12	12	9	75%	11	11	9	82%	2	2	1	50%	0	0	0	-	28	28	20	71%
Birch Creek	0	0	0	-	7	7	4	57%	1	1	1	100%	0	0	0	-	0	0	0	-	8	8	5	63%
Beaver	0	0	0	-	11	11	9	82%	12	12	9	75%	2	2	0	0%	0	0	0	-	25	25	18	72%
Fort Yukon	4	4	0	0%	106	32	27	84%	39	12	8	67%	13	13	10	77%	1	1	1	100%	165	62	46	74%
Venette	4	4	1	25%	28	28	19	68%	5	5	5	100%	2	2	1	50%	1	1	1	100%	40	40	27	68%
Chalkyitsik	3	3	0	0%	30	30	22	73%	7	7	5	71%	0	0	0	-	0	0	0	-	40	40	27	68%
District 5	18	18	4	22%	271	147	107	73%	98	63	50	79%	26	26	19	73%	11	11	10	91%	424	266	190	72%
Survey Totals	35	35	15	43%	1,161	478	357	75%	1,048	446	382	86%	152	152	138	91%	22	22	20	91%	2,418	1,133	913	81%

\* Total number of households (N), the sample size (n), the number of households contacted (C), and the percent of the sampled households that were contacted (%C).

<sup>b</sup> Formerly known as Sheldon or Sheldon's Point.

Table 7. Estimated number of subsistence fishing households in surveyed villages, by harvest stratum, with village and district totals, Yukon Area, 2002. \*

Community	Unknown				Does Not Harvest Salmon				Light Harvester				Medium Harvester				Heavy Harvester				Combined			
																					Total		Est CI(95%)	
	N	n	Mean	SE	N	n	Mean	SE	N	n	Mean	SE	N	n	Mean	SE	N	n	Mean	SE	N	n	Total	(+/-)
Hooper Bay	2	0	-	-	92	25	0.5	0.1	93	24	0.8	0.0	13	13	1.0	0.0	1	1	1.0	0.0	201	63	139	20
Scammon Bay	0	0	-	-	30	8	0.6	0.2	50	15	0.9	0.0	2	2	1.0	0.0	0	0	-	-	82	25	67	11
Coastal District	2	0	0.0	0.0	122	33	0.5	0.1	143	39	0.9	0.0	15	15	1.0	0.0	1	1	1.0	0.0	283	88	207	23
Nunam Iqua <sup>b</sup>	1	1	0.0	0.0	10	5	0.0	0.0	19	16	0.7	0.0	2	2	1.0	0.0	0	0	-	-	32	24	16	2
Alakanuk	0	0	-	-	53	14	0.5	0.1	71	18	0.7	0.0	7	7	0.9	0.0	0	0	-	-	131	39	88	17
Emmonak	2	1	0.0	-	79	21	0.3	0.1	71	30	0.6	0.0	9	9	0.9	0.0	0	0	-	-	161	61	73	16
Kotlik	0	0	-	-	31	6	0.8	0.2	50	13	0.8	0.0	7	5	1.0	0.0	2	2	1.0	0.0	90	26	77	13
District 1	3	2	0.0	0.0	173	46	0.4	0.1	211	77	0.7	0.0	25	23	0.9	0.0	2	2	1.0	0.0	414	150	254	27
Mountain Village	1	1	0.0	0.0	49	10	0.2	0.1	89	17	0.7	0.1	10	10	0.9	0.0	0	0	-	-	149	38	87	20
Pitkas Point	0	0	-	-	5	3	0.3	0.2	18	16	0.8	0.0	2	1	1.0	-	0	0	-	-	25	20	19	2
St. Mary's	5	3	0.3	0.2	34	8	0.1	0.1	84	16	0.8	0.0	15	14	0.9	0.0	0	0	-	-	118	41	76	12
Pilot Station	0	0	-	-	47	10	0.4	0.1	51	24	0.7	0.0	4	3	0.7	0.2	0	0	-	-	102	37	60	15
Marshall	2	2	0.0	0.0	19	5	0.4	0.2	53	15	0.8	0.0	2	2	1.0	0.0	0	0	-	-	76	24	56	11
District 2	8	6	0.2	0.1	154	38	0.3	0.1	275	88	0.8	0.0	33	30	0.9	0.0	0	0	-	-	470	180	297	30
Russian Mission	0	0	-	-	24	6	0.7	0.2	37	9	0.7	0.1	2	2	1.0	0.0	0	0	-	-	63	17	47	13
Holy Cross	0	0	-	-	21	3	0.0	0.0	35	16	0.7	0.0	4	4	1.0	0.0	0	0	-	-	60	23	30	6
Shageluk	2	1	0.0	-	11	6	0.3	0.1	14	12	0.4	0.0	3	3	0.7	0.0	3	2	1.0	0.0	33	24	15	3
District 3	2	1	0.0	0.0	56	15	0.4	0.1	86	37	0.7	0.0	9	9	0.9	0.0	3	2	1.0	0.0	156	64	92	14
Anvik	0	0	-	-	17	14	0.2	0.1	13	13	0.7	0.0	3	3	1.0	0.0	0	0	-	-	33	30	17	2
Grayling	0	0	-	-	13	2	0.5	0.5	26	6	0.6	0.1	7	7	1.0	0.0	0	0	-	-	46	15	31	15
Kaitag	0	0	-	-	15	5	0.0	0.0	40	11	0.9	0.0	3	2	1.0	0.0	0	0	-	-	58	18	39	6
Nulato	0	0	-	-	50	9	0.3	0.2	37	11	0.8	0.1	6	6	0.8	0.0	1	1	0.0	0.0	94	27	52	17
Koyukuk	0	0	-	-	11	8	0.0	0.0	14	12	0.3	0.0	1	1	1.0	0.0	1	1	1.0	0.0	27	22	7	1
Galena	1	1	1.0	0.0	112	30	0.2	0.1	47	14	0.6	0.1	7	7	1.0	0.0	1	1	1.0	0.0	168	53	58	17
Ruby	0	0	-	-	47	9	0.1	0.1	12	4	0.2	0.2	6	6	0.8	0.0	2	2	1.0	0.0	67	21	15	10
Huslia	1	1	1.0	0.0	54	11	0.2	0.1	23	7	0.5	0.1	3	3	1.0	0.0	0	0	-	-	81	22	27	14
Hughes	0	0	-	-	9	8	0.0	0.0	8	7	0.7	0.0	3	3	1.0	0.0	0	0	-	-	20	18	9	1
Allakaket	0	0	-	-	32	4	0.5	0.3	12	4	0.5	0.2	5	5	1.0	0.0	0	0	-	-	49	13	27	18
Alatna	0	0	-	-	3	3	0.3	0.0	3	2	0.5	0.2	0	0	-	-	0	0	-	-	6	5	3	2
Bettles	0	0	-	-	22	17	0.0	0.0	0	0	-	-	0	0	-	-	0	0	-	-	22	17	0	0
District 4	2	2	1.0	0.0	385	120	0.2	0.0	235	91	0.7	0.0	44	43	1.0	0.0	5	5	0.8	0.0	671	261	284	38
Tanana	3	2	0.0	0.0	69	12	0.3	0.1	17	8	0.6	0.1	5	5	0.8	0.0	8	8	1.0	0.0	102	35	40	17
Rampart	1	0	-	-	6	5	0.4	0.1	6	5	0.6	0.1	2	2	1.0	0.0	1	0	-	-	16	12	8	2
Stevens Village	3	1	0.0	-	12	9	0.2	0.1	11	9	0.5	0.0	2	1	1.0	-	0	0	-	-	28	20	11	2
Birch Creek	0	0	-	-	7	4	0.3	0.2	1	1	1.0	0.0	0	0	-	-	0	0	-	-	8	5	3	2
Beaver	0	0	-	-	11	9	0.1	0.1	12	9	0.7	0.0	2	0	-	-	0	0	-	-	25	18	11	2
Fort Yukon	4	0	-	-	108	27	0.2	0.1	39	8	0.1	0.1	13	10	0.8	0.1	1	1	1.0	0.0	165	46	36	16
Venetie	4	1	0.0	-	28	19	0.2	0.1	5	5	0.6	0.0	2	1	1.0	-	1	1	1.0	0.0	40	27	10	3
Chalkyitsik	3	0	-	-	30	22	0.1	0.0	7	5	0.4	0.1	0	0	-	-	0	0	-	-	40	27	6	3
District 5	18	4	0.0	0.0	271	107	0.2	0.0	98	50	0.4	0.0	28	19	0.8	0.0	11	10	0.9	0.0	424	190	124	24
Survey Totals	35	15	0.1	0.0	1,161	357	0.3	0.0	1,048	382	0.7	0.0	152	139	0.9	0.0	22	20	0.9	0.0	2,418	913	1,258	66

\* The total number of households (N), the number of households contacted (n), standard error (SE), and includes 95 percent confidence interval, CI (95%). Dashes indicate indefinable values.

<sup>b</sup> Formally known as Sheldon or Sheldons Point

Table 8. Estimated number of people in households in surveyed villages, by harvest stratum, with village and district totals, Yukon Area, 2002.<sup>a</sup>

Community	Unknown				Does Not Harvest Salmon				Light Harvester				Medium Harvester				Heavy Harvester				Combined			
	N	n	mean	SE	N	n	mean	SE	N	n	mean	SE	N	n	mean	SE	N	n	mean	SE	N	n	Total	Est CI(95%) (+/-)
Hooper Bay	2	0	-	-	92	24	3.8	0.4	93	24	6.0	0.4	13	13	7.2	0.0	1	1	4.0	0.0	201	62	1,016	108
Scammon Bay	0	0	-	-	30	8	4.1	0.9	50	15	5.2	0.4	2	2	8.0	0.0	0	0	-	-	82	25	403	71
Coastal District	2	0	0.0	0.0	122	32	3.9	0.4	143	39	5.8	0.3	15	15	7.3	0.0	1	1	4.0	0.0	283	87	1,420	130
Nunam Iqua <sup>b</sup>	1	0	-	-	10	5	3.2	0.4	19	16	6.2	0.2	2	2	6.5	0.0	0	0	-	-	32	23	164	11
Alakanuk	0	0	-	-	53	14	4.5	0.5	71	18	5.2	0.4	7	7	5.3	0.0	0	0	-	-	131	39	650	87
Emmonak	2	1	5.0	-	79	21	3.9	0.5	71	29	5.2	0.3	9	9	3.7	0.0	0	0	-	-	161	60	722	90
Kotlik	0	0	-	-	31	6	7.2	0.9	50	13	5.3	0.5	7	5	5.8	0.5	2	2	2.5	0.0	90	26	533	80
District 1	3	1	3.3	0.0	173	46	4.6	0.3	211	76	5.4	0.2	25	23	4.9	0.1	2	2	2.5	0.0	414	148	2,069	149
Mountain Village	1	1	1.0	0.0	49	10	3.9	0.7	89	17	4.7	0.5	10	10	6.1	0.0	0	0	-	-	149	38	672	121
Pitkas Point	0	0	-	-	5	3	5.3	0.6	18	16	4.6	0.1	2	1	7.0	-	0	0	-	-	25	20	125	8
St. Mary's	5	3	1.3	0.2	34	8	1.9	0.4	64	16	4.2	0.5	15	14	5.1	0.2	0	0	-	-	118	41	420	74
Pilot Station	0	0	-	-	47	10	3.8	0.7	51	23	5.9	0.3	4	2	2.5	1.1	0	0	-	-	102	35	490	70
Marshall	2	1	1.0	-	19	5	4.4	0.7	53	15	4.2	0.3	2	2	3.5	0.0	0	0	-	-	76	23	319	43
District 2	8	5	1.2	0.1	154	36	3.5	0.3	275	87	4.7	0.2	33	29	5.1	0.2	0	0	-	-	470	157	2,025	164
Russian Mission	0	0	-	-	24	6	4.5	0.9	37	9	3.5	0.3	2	2	8.0	0.0	0	0	-	-	63	17	256	51
Holy Cross	0	0	-	-	21	3	3.0	1.1	35	16	3.6	0.4	4	4	4.0	0.0	0	0	-	-	80	23	208	55
Shageluk	2	1	2.0	-	11	6	4.5	0.7	14	12	3.1	0.2	3	3	2.0	0.0	3	2	4.5	0.2	33	24	117	16
District 3	2	1	2.0	0.0	56	15	3.9	0.6	86	37	3.5	0.2	9	9	4.2	0.0	3	2	4.5	0.0	156	64	581	77
Anvik	0	0	-	-	17	14	2.1	0.1	13	13	3.3	0.0	3	3	5.0	0.0	0	0	-	-	33	30	93	5
Grayling	0	0	-	-	13	2	2.5	0.5	26	6	3.5	0.3	7	7	4.4	0.0	0	0	-	-	46	15	155	22
Kaitag	0	0	-	-	15	5	1.2	0.2	40	11	4.5	0.6	3	2	4.5	0.9	0	0	-	-	58	18	213	52
Nulato	0	0	-	-	50	9	2.7	0.6	37	11	3.1	0.4	6	6	4.5	0.0	1	1	4.0	0.0	94	27	282	68
Koyukuk	0	0	-	-	11	8	1.6	0.2	14	12	2.9	0.1	1	1	2.0	0.0	1	1	2.0	0.0	27	22	63	7
Galena	1	1	3.0	0.0	112	29	2.7	0.3	47	14	3.1	0.3	7	7	2.9	0.0	1	1	3.0	0.0	168	52	475	76
Ruby	0	0	-	-	47	9	3.0	0.5	12	4	3.7	1.3	6	6	3.8	0.0	2	2	2.0	0.0	67	21	213	55
Huslia	1	1	2.0	0.0	54	11	3.1	0.6	23	7	3.1	0.5	3	3	5.7	0.0	0	0	-	-	81	22	258	72
Hughes	0	0	-	-	9	8	1.5	0.1	8	7	3.0	0.2	3	3	3.3	0.0	0	0	-	-	20	18	48	4
Allakaket	0	0	-	-	32	4	4.0	0.9	12	4	3.5	0.4	5	5	4.0	0.0	0	0	-	-	49	13	190	54
Alatna	0	0	-	-	3	2	1.0	0.0	3	2	5.5	2.0	0	0	-	-	0	0	-	-	6	4	20	12
Bettles	0	0	-	-	22	17	2.5	0.2	0	0	-	-	0	0	-	-	0	0	-	-	22	17	56	7
District 4	2	2	2.5	0.0	385	118	2.7	0.2	235	91	3.5	0.1	44	43	4.1	0.1	5	5	2.6	0.0	671	259	2,065	158
Tanana	3	2	1.5	0.3	69	11	2.6	0.3	17	8	2.8	0.4	5	5	2.4	0.0	8	8	3.0	0.0	102	34	271	47
Rampart	1	0	-	-	6	5	1.2	0.1	6	5	2.2	0.1	2	1	2.0	-	1	0	-	-	16	11	24	2
Stevens Village	3	1	1.0	-	12	9	2.3	0.3	11	9	3.0	0.2	2	1	3.0	-	0	0	-	-	28	20	70	10
Birch Creek	0	0	-	-	7	4	2.3	0.3	1	1	4.0	0.0	0	0	-	-	0	0	-	-	8	5	20	4
Beaver	0	0	-	-	11	8	1.6	0.2	12	9	2.4	0.2	2	0	-	-	0	0	-	-	25	17	47	7
Fort Yukon	4	0	-	-	108	27	2.5	0.3	39	8	3.5	0.8	13	10	3.9	0.4	1	1	5.0	0.0	165	46	460	93
Venetie	4	1	3.0	-	28	19	2.7	0.2	5	5	4.0	0.0	2	1	4.0	-	1	1	5.0	0.0	40	27	120	9
Chalkyitsik	3	0	-	-	30	22	2.2	0.2	7	5	4.0	0.1	0	0	-	-	0	0	-	-	40	27	95	10
District 5	18	4	1.1	0.1	271	105	2.4	0.2	98	50	3.2	0.3	26	18	3.1	0.2	11	10	3.1	0.0	424	187	1,108	106
Survey Totals	35	13	1.4	0.0	1,161	352	3.2	0.1	1,048	380	4.5	0.1	152	137	4.6	0.1	22	20	3.2	0.0	2,418	902	9,268	329

<sup>a</sup> The total number of households (N), the number of households contacted (n), standard error (SE), and includes 95 percent confidence interval, CI (95%).<sup>b</sup> Formerly known as Sheldon or Sheldons Point

Table 9. Subsistence salmon harvest estimates (not including test or commercially retained fish) and corresponding confidence intervals (CI) for surveyed villages, Yukon Area, 2002.

Community	Total Households	Households Contacted	Chinook Salmon		Summer Chum Salmon		Fall Chum Salmon		Coho Salmon		Total Salmon
			Estimated Total	CI(95%) (+/-)	Estimated Total	CI(95%) (+/-)	Estimated Total	CI(95%) (+/-)	Estimated Total	CI(95%) (+/-)	Estimated Total
Hooper Bay	201	60	282	88	9,780	2,707	44	38	125	86	10,231
Scammon Bay	82	25	830	301	4,793	1,639	240	212	123	110	5,986
Coastal District	283	85	1,112	314	14,573	3,165	284	216	248	140	16,216
Nunam Iqua <sup>a</sup>	32	23	388	118	1,846	412	284	162	56	23	2,574
Alakanuk	131	39	1,336	587	6,842	2,363	222	102	183	137	8,584
Emmonak	161	61	856	303	6,050	2,540	296	218	253	210	7,455
Kotik	90	26	1,474	584	6,052	2,891	29	23	429	477	7,985
District 1	414	149	4,054	877	20,791	4,409	631	291	922	539	28,598
Mountain Village	149	38	1,523	702	5,858	2,219	172	277	85	0	7,638
Pitkas Point	25	19	566	75	613	101	16	12	47	35	1,242
St. Mary's	118	38	2,045	692	6,733	2,649	103	47	209	359	9,090
Pilot Station	102	36	1,985	1,119	3,597	2,178	0	0	5	5	5,587
Marshall	76	23	2,282	770	1,997	1,045	341	431	386	636	5,006
District 2	470	154	8,401	1,680	18,797	4,217	631	514	732	731	28,562
Russian Mission	63	16	1,869	753	370	208	164	280	115	144	2,519
Holy Cross	60	23	1,813	639	155	70	0	0	0	0	1,967
Shageluk	33	24	439	114	1,956	934	0	0	0	0	2,395
District 3	166	63	4,121	994	2,481	959	164	280	115	144	6,881
Anvik	33	28	708	72	1,089	312	401	1	0	0	2,198
Grayling	46	15	2,249	2,004	1,311	236	52	94	30	0	3,641
Kaitag	58	18	1,435	489	234	189	0	0	54	74	1,723
Niulato	94	25	1,773	591	269	202	0	0	78	102	2,120
Koyukuk	27	22	323	48	426	195	255	0	249	3	1,252
Gafena	168	52	1,522	474	712	203	349	275	169	278	2,752
Ruby	67	21	954	285	1,406	0	78	0	69	0	2,507
Huslia	81	21	222	110	3,178	1,994	0	0	60	68	3,461
Hughes	20	18	67	10	1,089	195	0	0	100	7	1,256
Allakaket	49	13	200	278	6,242	2,482	100	0	56	48	6,598
Alatna	6	5	0	0	5	5	0	0	0	0	5
Bettles	22	17	0	0	0	0	0	0	0	0	0
District 4	671	256	9,452	2,238	15,960	3,238	1,235	291	865	314	27,512
Tanana	102	34	2,379	311	3,321	61	6,255	0	2,032	0	13,987
Rampart	16	11	852	427	14	12	0	0	0	0	866
Stevens Village	28	20	1,036	205	4	3	0	0	0	0	1,040
Birch Creek	8	5	67	9	0	0	0	0	0	0	67
Beaver	25	18	702	265	77	41	1	1	17	11	796
Fort Yukon <sup>b</sup>	165	46	2,348	654	1,832	191	3,523	1,064	14	13	7,717
Venetie	40	27	77	0	13	0	680	99	12	9	782
Chalkyitsik	40	27	26	18	0	0	4	4	0	0	30
District 5	423	187	7,487	905	5,261	205	10,483	1,304	2,074	19	25,285
Survey Totals	2,417	893	34,626	3,395	77,864	8,957	13,808	4,436	4,956	982	131,054

<sup>a</sup> Formerly known as Sheldon or Sheldons Point<sup>b</sup> Includes a community harvest of 900 chinook, 1600 summer chum and 2700 fall chum salmon

Table 10. Estimated number of salmon used for subsistence purposes and corresponding confidence intervals (CI) for surveyed villages, Yukon Area, 2002.

Community	Total Households	Households Contacted	Chinook Salmon		Summer Chum Salmon		Fall Chum Salmon		Coho Salmon		Total Salmon
			Estimated Total	CI(95%) (+/-)	Estimated Total	CI(95%) (+/-)	Estimated Total	CI(95%) (+/-)	Estimated Total	CI(95%) (+/-)	Estimated Total
Hooper Bay	201	61	275	82	10,108	2,529	86	65	152	75	10,620
Scammon Bay	82	25	836	302	4,795	1,621	248	213	123	110	6,002
Coastal District	283	86	1,111	313	14,903	3,004	333	222	275	133	16,622
Nunam Iqua *	32	24	448	96	1,996	386	258	132	70	23	2,772
Alakanuk	131	39	1,217	484	6,320	1,846	222	102	183	137	7,943
Emmonak	161	60	1,301	364	9,178	2,881	542	328	334	202	11,355
Kotlik	90	26	1,641	609	5,185	2,466	35	25	413	458	7,274
District 1	414	149	4,606	865	22,680	4,236	1,058	369	1,001	520	29,344
Mountain Village	149	33	2,004	917	6,977	2,193	79	57	104	40	9,164
Pitkas Point	25	19	583	80	641	108	17	12	48	35	1,289
St. Mary's	118	40	1,609	430	5,262	1,176	138	61	17	29	7,026
Pilot Station	102	33	2,663	1,182	5,975	2,856	137	103	75	63	8,849
Marshall	76	24	2,434	714	2,242	990	145	135	360	586	5,182
District 2	470	149	9,292	1,714	21,097	3,917	616	187	805	592	31,610
Russian Mission	63	16	1,776	737	396	215	164	280	115	144	2,452
Holy Cross	60	22	2,026	793	197	105	0	0	0	0	2,222
Shageluk	33	24	405	107	2,001	937	0	0	0	0	2,406
District 3	156	62	4,207	1,088	2,594	967	164	280	115	144	7,091
Anvik	33	30	756	45	1,025	6	401	1	0	0	2,182
Grayling	46	15	2,401	1,907	1,311	236	78	141	30	0	3,820
Kaitag	58	18	1,452	493	234	189	7	12	136	86	1,830
Nulato	94	24	1,894	600	286	217	0	0	100	113	2,280
Koyukuk	27	21	110	16	252	187	111	1	5	3	478
Galena	168	52	1,728	445	753	241	432	301	215	265	3,128
Ruby	67	20	1,342	274	651	0	2	0	0	0	2,199
Huslia	81	21	401	220	3,388	2,108	0	0	60	68	3,849
Hughes	20	18	79	8	1,089	195	11	7	100	7	1,280
Allakaket	49	13	220	260	5,040	631	100	0	36	0	5,396
Alatna	6	5	16	7	19	5	10	0	0	0	45
Bettles	22	17	6	3	0	0	1	1	3	2	10
District 4	671	254	10,406	2,152	14,248	2,261	1,154	333	684	308	26,491
Tanana	102	34	2,575	325	3,368	81	6,085	0	2,157	225	14,186
Rampart	16	11	679	408	0	0	0	0	0	0	679
Stevens Village	28	17	1,000	258	4	3	0	0	0	0	1,003
Birch Creek	8	5	68	11	0	0	0	0	0	0	68
Beaver	25	16	613	234	106	45	2	2	19	15	739
Fort Yukon	165	43	2,025	651	1,105	897	2,293	1,791	22	19	5,444
Venetie	40	27	103	5	13	0	680	99	16	10	812
Chalkyitsik	40	27	71	18	0	0	4	4	0	0	75
District 5	424	180	7,133	904	4,595	902	9,063	1,794	2,215	227	23,006
Survey Totals	2,418	880	36,755	3,227	80,117	7,012	12,288	1,905	4,994	898	134,054

\* Formerly known as Sheldon or Sheldons Point

Table 11. Estimated or reported subsistence harvest of pink salmon and other miscellaneous fish species by surveyed villages, Yukon Area, 2002.

Community	Estimated Subsistence Harvest with Corresponding Confidence Intervals (CI) (Expanded to Estimate Survey Village Harvest)												Total Expanded Misc. Fish Harvest	Reported Harvest of Miscellaneous Fish Species, (Not Expanded)								Total Not Expanded Misc. Fish Harvest
	Total Households	Households Contacted	Pink Salmon		Large Whitefish *		Small Whitefish		Pike		Sheefish			Burbot	Lamprey	Tomcod	Grayling	Sucker	Char	Blackfish		
			Estimated Total	CI(95%) (+/-)	Estimated Total	CI(95%) (+/-)	Estimated Total	CI(95%) (+/-)	Estimated Total	CI(95%) (+/-)	Estimated Total	CI(95%) (+/-)										
Hooper Bay	201	62	5,475	3,831	0	0	6,724	2,834	948	613	97	96	13,244	32	0	1,822	0	0	0	14,720	16,374	
Scammon Bay	82	25	417	301	397	239	1,319	529	1,370	718	106	111	3,609	9	0	1,930	0	0	0	26,915	28,854	
Coastal District	283	87	5,892	3,842	397	239	8,043	2,883	2,319	943	203	147	16,853	41	0	2,552	0	0	0	41,635	45,228	
Nunam Iqua *	32	24	10	0	289	119	258	88	169	61	540	127	1,298	189	0	0	9	0	9	28,040	28,247	
Alakanuk	131	39	130	66	685	355	2,147	2,010	365	210	1,199	638	4,556	264	0	530	2	0	0	101,590	102,386	
Emmonak	161	61	39	0	1,074	788	1,773	1,041	1,019	648	2,063	840	5,967	113	0	240	4	0	31	13,422	13,810	
Kotlik	90	26	849	983	943	674	3,049	2,641	378	284	2,198	1,922	7,417	123	0	75	0	0	0	134,050	134,248	
District 1	414	160	1,028	985	2,991	1,102	7,227	3,480	1,960	741	6,000	2,196	19,208	689	0	848	15	0	40	277,102	278,691	
Mountain Village	149	38	745	830	2,510	2,140	1,204	1,061	2,070	1,384	685	363	7,214	573	0	25	0	0	0	34,125	34,723	
Pitkas Point	25	19	35	28	514	179	242	104	100	54	340	147	1,230	185	0	0	19	0	2	6,125	6,331	
St. Mary's	118	40	7	7	3,272	1,436	884	689	1,155	548	1,055	532	6,373	1,340	0	0	20	0	2	6,700	8,062	
Pilot Station	102	37	22	22	4,107	3,372	191	170	731	384	779	496	5,830	17	0	0	0	0	0	6,825	6,842	
Marshall	76	23	473	553	2,268	1,412	440	642	3,577	2,319	1,403	896	8,162	195	71	75	40	0	0	53,575	53,959	
District 2	470	157	1,282	998	12,672	4,477	2,981	1,432	7,632	2,783	4,262	1,219	28,809	2,310	71	100	79	0	4	107,350	108,914	
Russian Mission	63	17	0	0	1,511	1,445	514	701	2,601	2,990	931	790	5,557	26	0	0	24	0	0	22	72	
Holy Cross	60	22	0	0	193	94	147	69	133	96	54	89	527	97	100	0	8	6	15	5,258	5,484	
Shageluk	33	24	0	0	1,840	718	517	263	352	161	428	176	3,136	36	0	0	0	0	0	0	38	
District 3	158	63	0	0	3,544	1,616	1,177	752	3,086	2,996	1,413	784	9,220	161	100	0	32	6	15	5,280	5,594	
Anvik	33	30	0	0	201	12	165	12	138	15	121	4	624	0	0	0	87	0	2	0	89	
Grayling	46	14	30	0	608	398	255	229	317	35	253	203	1,463	201	0	0	262	300	0	20	763	
Kaitag	58	18	0	0	175	218	0	0	100	95	44	41	320	2	450	0	8	0	0	0	460	
Nulato	94	27	50	69	674	832	762	850	25	23	75	88	1,598	7	0	0	63	0	18	0	88	
Koyukuk	27	21	4	3	23	17	0	0	15	9	56	36	98	141	0	0	17	25	10	1,580	1,773	
Galeana	168	53	50	0	5,909	4,404	2,828	4,520	327	291	559	327	9,671	95	0	0	0	45	0	0	80	
Ruby	67	21	87	0	42	0	391	5	50	5	37	0	607	2,000	0	0	50	0	0	0	2,050	
Huslia	91	22	0	0	818	316	1,217	1,087	827	561	741	324	3,603	75	0	0	2	45	10	0	132	
Hughes	20	16	0	0	1,206	379	2,465	1,568	38	9	126	9	3,835	3	0	0	0	0	0	0	3	
Allakaket	49	13	0	0	963	611	3,340	968	453	225	603	385	5,359	0	0	0	0	0	0	0	0	
Alatna	6	5	0	0	110	102	50	0	21	0	36	7	217	9	0	0	210	0	97	0	316	
Bettles	22	17	0	0	0	0	0	0	9	5	13	12	22	4	0	0	32	53	0	0	69	
District 4	671	259	221	69	10,730	4,574	11,471	5,078	2,321	679	2,663	642	27,405	2,477	450	0	731	468	137	1,600	5,863	
Tanana	102	33	0	0	6,417	257	8,563	2,800	123	71	336	24	15,439	0	0	0	0	0	0	0	0	
Rampart	16	11	0	0	30	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	
Stevens Village	28	19	0	0	22	16	0	0	6	6	3	3	33	0	0	0	23	0	0	0	23	
Birch Creek	8	5	0	0	54	56	0	0	84	56	0	0	138	68	0	0	0	0	0	0	68	
Beaver	25	16	0	0	3	3	0	0	73	48	4	4	80	0	0	0	2	0	2	0	4	
Fort Yukon	165	45	0	0	1,251	853	901	815	1,250	1,382	1,076	1,361	4,477	0	0	0	0	0	0	0	0	
Venetie	40	27	0	0	37	41	0	0	23	35	0	0	60	63	0	0	15	47	0	0	125	
Chalkyitsik	40	27	0	0	0	0	0	0	27	22	1	1	29	0	2	0	511	25	0	0	538	
District 5	424	183	0	0	7,813	803	9,464	2,916	1,589	1,386	1,420	1,361	20,285	131	2	0	551	72	2	0	758	
Survey Totals	2,418	899	8,423	4,091	38,146	6,757	40,343	7,571	18,906	4,532	15,960	3,034	121,779	5,809	623	4,497	1,408	546	198	432,967	446,048	

\* Large whitefish are considered those four pounds or larger and small whitefish are less than four pounds.

\* Formerly known as Sheldon or Sheldon's Point.

Table 12. Estimated subsistence harvest (not including test or commercially retained) of chinook salmon by fishing location in surveyed villages, Yukon Area, 2002<sup>a</sup>

COMMUNITY	Coastal District	Districts			Subdistricts								River Drainages					Total by Community
		1	2	3	4A	4B	4C	5A	5B	5C	5D		Innoko	Koyukuk	Chandalar	Porcupine	Black	
Hooper Bay	256	25	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	282
Scammon Bay	0	830	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	830
<b>Coastal District</b>	<b>256</b>	<b>854</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,112</b>
Nunam Iqua <sup>b</sup>	0	388	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	388
Alakanuk	15	1,320	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,336
Emmonak	0	856	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	856
Kotlik	0	1,474	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,474
<b>District 1</b>	<b>15</b>	<b>4,039</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,054</b>
Mountain Village	0	622	901	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,523
Pitkas Point	0	0	557	0	0	0	0	0	0	0	10	0	0	0	0	0	0	566
St. Mary's	0	17	2,015	0	0	13	0	0	0	0	0	0	0	0	0	0	0	2,045
Pilot Station	0	0	1,985	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,985
Marshall	0	0	2,282	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,282
<b>District 2</b>	<b>0</b>	<b>639</b>	<b>7,740</b>	<b>0</b>	<b>0</b>	<b>13</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>8,401</b>
Russian Mission	0	0	0	1,869	0	0	0	0	0	0	0	0	0	0	0	0	0	1,869
Holy Cross	0	0	0	1,813	0	0	0	0	0	0	0	0	0	0	0	0	0	1,813
Shageluk	0	0	0	421	18	0	0	0	0	0	0	0	0	0	0	0	0	439
<b>District 3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,102</b>	<b>18</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,121</b>
Anvik	0	0	0	0	708	0	0	0	0	0	0	0	0	0	0	0	0	708
Grayling	0	0	0	0	2,249	0	0	0	0	0	0	0	0	0	0	0	0	2,249
Kaltag	0	0	0	0	1,435	0	0	0	0	0	0	0	0	0	0	0	0	1,435
Nulato	0	0	0	0	1,773	0	0	0	0	0	0	0	0	0	0	0	0	1,773
Koyukuk	0	0	0	0	323	0	0	0	0	0	0	0	0	0	0	0	0	323
Galena	0	0	0	0	659	430	433	0	0	0	0	0	0	0	0	0	0	1,522
Ruby	0	0	0	0	0	373	547	0	34	0	0	0	0	0	0	0	0	954
Huslia	0	0	0	0	0	0	0	0	0	0	0	0	222	0	0	0	0	222
Hughes	0	0	0	0	0	0	0	0	0	0	0	0	67	0	0	0	0	67
Allakaket	0	0	0	0	0	0	0	0	0	0	0	0	200	0	0	0	0	200
Alatna	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bettles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>District 4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7,146</b>	<b>803</b>	<b>980</b>	<b>0</b>	<b>34</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>489</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>9,452</b>
Tanana	0	0	0	0	0	0	0	51	2,288	40	0	0	0	0	0	0	0	2,379
Rampart	0	0	0	0	0	0	0	4	0	848	0	0	0	0	0	0	0	852
Stevens Village	0	0	0	0	0	0	0	0	0	65	972	0	0	0	0	0	0	1,036
Birch Creek	0	0	0	0	0	0	0	0	0	0	67	0	0	0	0	0	0	67
Beaver	0	0	0	0	0	0	0	0	0	0	702	0	0	0	0	0	0	702
Fort Yukon <sup>c</sup>	0	0	0	0	0	0	0	0	0	0	2,348	0	0	0	0	0	0	2,348
Venetie	0	0	0	0	0	0	0	0	0	0	77	0	0	0	0	0	0	77
Chalkyitsik	0	0	0	0	0	0	0	0	0	0	26	0	0	0	0	0	0	26
<b>District 5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>54</b>	<b>2,288</b>	<b>953</b>	<b>4,192</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7,487</b>
<b>Survey Totals</b>	<b>271 0</b>	<b>5,532</b>	<b>7,741</b>	<b>4,102 0</b>	<b>7,165</b>	<b>815</b>	<b>980</b>	<b>54</b>	<b>2,322</b>	<b>953</b>	<b>4,201 0</b>	<b>0</b>	<b>489</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0 0</b>	<b>34,626</b>

<sup>a</sup> Totals may not appear to be correct due to decimal rounding.<sup>b</sup> Formally known as Sheldon or Sheldons Point<sup>c</sup> Total includes a community harvest of 900 chinook salmon

Table 13. Estimated subsistence harvest (not including test or commercially retained) of summer chum salmon by fishing location in surveyed villages, Yukon Area, 2002<sup>a</sup>

COMMUNITY	Coastal District	Districts			Subdistricts								River Drainages					Total by Community
		1	2	3	4A	4B	4C	5A	5B	5C	5D	Innoko	Koyukuk	Chandalar	Porcupine	Black		
Hooper Bay	8,453	1,327	1	0	0	0	0	0	0	0	0	0	0	0	0	0	9,780	
Scammon Bay	0	4,793	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4,793	
Coastal District	8,453	6,119	1	0	0	0	0	0	0	0	0	0	0	0	0	0	14,573	
Nunam Iqua <sup>b</sup>	0	1,846	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,846	
Alakanuk	295	6,547	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6,842	
Emmonak	0	6,050	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6,050	
Kotlik	0	6,052	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6,052	
District 1	295	20,496	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20,791	
Mountain Village	0	2,177	3,681	0	0	0	0	0	0	0	0	0	0	0	0	0	5,858	
Pitkas Point	0	0	559	0	0	0	0	0	0	0	54	0	0	0	0	0	613	
St. Mary's	0	81	6,533	0	0	119	0	0	0	0	0	0	0	0	0	0	6,733	
Pilot Station	0	0	3,597	0	0	0	0	0	0	0	0	0	0	0	0	0	3,597	
Marshall	0	0	1,997	0	0	0	0	0	0	0	0	0	0	0	0	0	1,997	
District 2	0	2,258	16,367	0	0	119	0	0	0	0	54	0	0	0	0	0	18,798	
Russian Mission	0	0	0	370	0	0	0	0	0	0	0	0	0	0	0	0	370	
Holy Cross	0	0	0	155	0	0	0	0	0	0	0	0	0	0	0	0	155	
Shageluk	0	0	0	1,938	18	0	0	0	0	0	0	0	0	0	0	0	1,956	
District 3	0	0	0	2,462	18	0	0	0	0	0	0	0	0	0	0	0	2,481	
Anvik	0	0	0	0	1,089	0	0	0	0	0	0	0	0	0	0	0	1,089	
Grayling	0	0	0	0	1,311	0	0	0	0	0	0	0	0	0	0	0	1,311	
Kaltag	0	0	0	0	234	0	0	0	0	0	0	0	0	0	0	0	234	
Nulato	0	0	0	0	269	0	0	0	0	0	0	0	0	0	0	0	269	
Koyukuk	0	0	0	0	426	0	0	0	0	0	0	0	0	0	0	0	426	
Galena	0	0	0	0	107	592	13	0	0	0	0	0	0	0	0	0	712	
Ruby	0	0	0	0	0	353	534	0	519	0	0	0	0	0	0	0	1,406	
Huslia	0	0	0	0	0	0	0	0	0	0	0	0	3,178	0	0	0	3,178	
Hughes	0	0	0	0	0	0	0	0	0	0	0	0	1,089	0	0	0	1,089	
Allakaket	0	0	0	0	0	0	0	0	0	0	0	0	6,242	0	0	0	6,242	
Alatna	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	5	
Bettles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
District 4	0	0	0	0	3,435	945	547	0	519	0	0	0	10,514	0	0	0	15,960	
Tanana	0	0	0	0	0	0	0	200	3,118	3	0	0	0	0	0	0	3,321	
Rampart	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	14	
Stevens Village	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	4	
Birch Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Beaver	0	0	0	0	0	0	0	0	0	0	77	0	0	0	0	0	77	
Fort Yukon <sup>c</sup>	0	0	0	0	0	0	0	0	0	0	1,832	0	0	0	0	0	1,832	
Venetie	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	13	
Chalkyitsik	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
District 5	0	0	0	0	0	0	0	200	3,118	21	1,922	0	0	0	0	0	5,261	
Survey Totals	8,748	28,873	16,368	2,462	3,454	1,064	547	200	3,637	21	1,976	0	10,514	0	0	0	77,864	

<sup>a</sup> Totals may not appear to be correct due to decimal rounding.<sup>b</sup> Formerly known as Sheldon or Sheldon's Point<sup>c</sup> Total includes a community harvest of 1600 summer chum salmon

Table 14. Estimated subsistence harvest (not including test or commercially retained) of fall chum salmon by fishing location in surveyed villages, Yukon Area, 2002\*

COMMUNITY	Coastal District	Districts			Subdistricts								River Drainages				Total by Community
		1	2	3	4A	4B	4C	5A	5B	5C	5D	Innoko	Koyukuk	Chandalar	Porcupine	Black	
Hooper Bay	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44
Scammon Bay	0	240	0	0	0	0	0	0	0	0	0	0	0	0	0	0	240
Coastal District	44	240	0	0	0	0	0	0	0	0	0	0	0	0	0	0	284
Nunam Iqua <sup>b</sup>	0	284	0	0	0	0	0	0	0	0	0	0	0	0	0	0	284
Alakanuk	0	222	0	0	0	0	0	0	0	0	0	0	0	0	0	0	222
Emmonak	0	296	0	0	0	0	0	0	0	0	0	0	0	0	0	0	296
Kotlik	0	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
District 1	0	831	0	0	0	0	0	0	0	0	0	0	0	0	0	0	831
Mountain Village	0	162	10	0	0	0	0	0	0	0	0	0	0	0	0	0	172
Pitkas Point	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	16
St. Mary's	0	0	103	0	0	0	0	0	0	0	0	0	0	0	0	0	103
Pilot Station	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Marshall	0	0	341	0	0	0	0	0	0	0	0	0	0	0	0	0	341
District 2	0	162	469	0	0	0	0	0	0	0	0	0	0	0	0	0	631
Russian Mission	0	0	0	164	0	0	0	0	0	0	0	0	0	0	0	0	164
Holy Cross	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shageluk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
District 3	0	0	0	164	0	0	0	0	0	0	0	0	0	0	0	0	164
Anvik	0	0	0	0	401	0	0	0	0	0	0	0	0	0	0	0	401
Grayling	0	0	0	0	52	0	0	0	0	0	0	0	0	0	0	0	52
Katag	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nulato	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Koyukuk	0	0	0	0	255	0	0	0	0	0	0	0	0	0	0	0	255
Galena	0	0	0	0	200	139	10	0	0	0	0	0	0	0	0	0	349
Ruby	0	0	0	0	0	0	0	0	78	0	0	0	0	0	0	0	78
Huslia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hughes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Allakaket	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	100
Alatna	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bettles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
District 4	0	0	0	0	908	139	10	0	78	0	0	0	100	0	0	0	1,235
Tanana	0	0	0	0	0	0	0	1,995	4,260	0	0	0	0	0	0	0	6,255
Rampart	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stevens Village	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Birch Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Beaver	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Fort Yukon <sup>c</sup>	0	0	0	0	0	0	0	0	0	0	3,523	0	0	0	0	0	3,523
Venetie	0	0	0	0	0	0	0	0	0	0	37	0	0	0	643	0	680
Chalkyitsik	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	4
District 5	0	0	0	0	0	0	0	1,995	4,260	0	3,565	0	0	0	643	0	10,463
Survey Totals	44	1,233	469	164	908	139	10	1,995	4,338	0	3,565	0	100	0	643	0	13,608

\* Totals may not appear to be correct due to decimal rounding.

<sup>b</sup> Formerly known as Sheldon or Sheldons Point.<sup>c</sup> Total includes a community harvest of 2700 fall chum salmon

Table 15. Estimated subsistence harvest (not including test or commercially retained) of coho salmon by fishing location in surveyed villages, Yukon Area, 2002<sup>a</sup>

COMMUNITY	Coastal District	Districts			Subdistricts							River Drainages					Total by Community
		1	2	3	4A	4B	4C	5A	5B	5C	5D	Innoko	Koyukuk	Chandalar	Porcupine	Black	
Hooper Bay	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	125
Scammon Bay	0	123	0	0	0	0	0	0	0	0	0	0	0	0	0	0	123
Coastal District	125	123	0	0	0	0	0	0	0	0	0	0	0	0	0	0	248
Nunam Iqua <sup>b</sup>	0	56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56
Alakanuk	0	183	0	0	0	0	0	0	0	0	0	0	0	0	0	0	183
Emmonak	0	253	0	0	0	0	0	0	0	0	0	0	0	0	0	0	253
Kolik	0	429	0	0	0	0	0	0	0	0	0	0	0	0	0	0	429
District 1	0	922	0	0	0	0	0	0	0	0	0	0	0	0	0	0	922
Mountain Village	0	80	5	0	0	0	0	0	0	0	0	0	0	0	0	0	85
Pitkas Point	0	0	44	0	0	0	0	0	0	0	2	0	0	0	0	0	47
St. Mary's	0	0	209	0	0	0	0	0	0	0	0	0	0	0	0	0	209
Pilot Station	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Marshall	0	0	386	0	0	0	0	0	0	0	0	0	0	0	0	0	386
District 2	0	80	650	0	0	0	0	0	0	0	2	0	0	0	0	0	732
Russian Mission	0	0	0	115	0	0	0	0	0	0	0	0	0	0	0	0	115
Holy Cross	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shageluk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
District 3	0	0	0	115	0	0	0	0	0	0	0	0	0	0	0	0	115
Anvik	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grayling	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	30
Kaltag	0	0	0	0	54	0	0	0	0	0	0	0	0	0	0	0	54
Nulato	0	0	0	0	78	0	0	0	0	0	0	0	0	0	0	0	78
Koyukuk	0	0	0	0	249	0	0	0	0	0	0	0	0	0	0	0	249
Galena	0	0	0	0	0	169	0	0	0	0	0	0	0	0	0	0	169
Ruby	0	0	0	0	0	0	0	0	69	0	0	0	0	0	0	0	69
Huslia	0	0	0	0	0	0	0	0	0	0	0	0	60	0	0	0	60
Hughes	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	100
Allakaket	0	0	0	0	0	0	0	0	0	0	0	0	56	0	0	0	56
Alatna	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bettles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
District 4	0	0	0	0	411	169	0	0	69	0	0	0	216	0	0	0	865
Tanana	0	0	0	0	0	0	0	1,594	438	0	0	0	0	0	0	0	2,032
Rampart	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stevens Village	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Birch Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Beaver	0	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	17
Fort Yukon	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	14
Venetie	0	0	0	0	0	0	0	0	0	0	7	0	0	0	4	0	12
Chalkyitsik	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
District 5	0	0	0	0	0	0	0	1,594	438	0	37	0	0	0	4	0	2,074
Survey Totals	125	1,125	650	115	411	169	0	1,594	507	0	40	0	216	0	4	0	4,958

<sup>a</sup> Totals may not appear to be correct due to decimal rounding.<sup>b</sup> Formerly known as Sheldon or Sheldons Point

Table 16. Household responses characterizing quality of subsistence salmon fishing and whether subsistence salmon needs were met, Yukon Area, 2002.

Community	Number of households that responded to whether their needs were met	Percentage of households that responded that their needs were met	Percentage of households that responded that their needs were NOT met	Number of households that responded to the quality of the salmon run	Percent of Households Reporting Quality of Subsistence Fishing							
					Chinook		Summer Chum		Fall Chum		Coho	
					Very Good or Average	Very Poor	Very Good or Average	Very Poor	Very Good or Average	Very Poor	Very Good or Average	Very Poor
Hooper Bay	54	52%	48%	16	90%	10%	81%	19%	100%	0%	50%	50%
Scammon Bay	24	75%	25%	11	100%	0%	100%	0%	100%	0%	100%	0%
Coastal District	78	59%	41%	27	94%	6%	89%	11%	100%	0%	67%	33%
Nunam Iqua <sup>a</sup>	23	43%	57%	12	92%	8%	90%	10%	50%	50%	100%	0%
Alakanuk	36	61%	39%	22	95%	5%	95%	5%	100%	0%	100%	0%
Emmonak	53	62%	38%	28	79%	21%	82%	18%	75%	25%	77%	23%
Kotlik	25	56%	44%	16	69%	31%	69%	31%	75%	25%	75%	25%
District 1	137	58%	42%	78	83%	17%	85%	15%	75%	25%	82%	18%
Mountain Village	35	31%	69%	16	81%	19%	81%	19%	50%	50%	100%	0%
Pitkas Point	18	61%	39%	12	75%	25%	75%	25%	100%	0%	100%	0%
St. Mary's	39	64%	36%	22	95%	5%	91%	9%	58%	42%	100%	0%
Pilot Station	34	74%	26%	19	79%	21%	79%	21%	50%	50%	0%	100%
Marshall	19	53%	47%	17	82%	18%	82%	18%	50%	50%	100%	0%
District 2	145	57%	43%	86	84%	16%	83%	17%	60%	40%	91%	9%
Russian Mission	17	71%	29%	5	80%	20%	-	-	-	-	-	-
Holy Cross	20	70%	30%	5	100%	0%	100%	0%	-	-	-	-
Shageluk	23	30%	70%	1	100%	0%	100%	0%	100%	0%	100%	0%
District 3	60	55%	45%	11	91%	9%	100%	0%	100%	0%	100%	0%
Anvik	28	29%	71%	2	100%	0%	-	-	-	-	-	-
Grayling	15	27%	73%	1	100%	0%	100%	0%	-	-	-	-
Kaltag	17	24%	76%	1	-	-	0%	100%	-	-	-	-
Nulato	25	52%	48%	3	100%	0%	-	-	-	-	-	-
Koyukuk	16	25%	75%	5	40%	60%	0%	100%	-	-	-	-
Galena	47	36%	64%	10	70%	30%	89%	11%	83%	17%	50%	50%
Ruby	17	24%	76%	10	20%	80%	0%	100%	0%	100%	0%	100%
Huslia	21	33%	67%	0	-	-	-	-	-	-	-	-
Hughes	18	6%	94%	0	-	-	-	-	-	-	-	-
Allakaket	11	18%	82%	6	33%	67%	33%	67%	0%	100%	0%	100%
Alatna	4	25%	75%	2	50%	50%	50%	50%	50%	50%	0%	100%
Bettles	2	100%	0%	0	-	-	-	-	-	-	-	-
District 4	221	30%	70%	39	51%	49%	46%	54%	50%	50%	17%	83%
Tanana	30	17%	83%	9	22%	78%	25%	75%	0%	100%	0%	100%
Rampart	6	83%	17%	5	100%	0%	-	-	-	-	-	-
Stevens Village	12	83%	17%	8	63%	38%	-	-	-	-	-	-
Birch Creek	4	50%	50%	0	-	-	-	-	-	-	-	-
Beaver	13	92%	8%	8	88%	13%	80%	20%	100%	0%	-	-
Fort Yukon	40	30%	70%	7	57%	43%	50%	50%	25%	75%	0%	100%
Venetie	27	11%	89%	1	-	-	-	-	0%	100%	-	-
Chalkyitsik	26	23%	77%	1	100%	0%	-	-	-	-	-	-
District 5	168	35%	65%	38	63%	37%	54%	46%	18%	82%	0%	100%
Survey Totals	799	45%	55%	279	77%	23%	78%	22%	60%	40%	70%	30%

<sup>a</sup> Formerly known as Sheldon or Sheldons Point.

Table 17. Reported subsistence and personal use fish harvested under the authority of a permit, listed by permit area, Yukon Area, 2002. <sup>a</sup>

Permit Fishing Area	Type	Permit		Percent Returned	Number of Permits Returned that Fished	Reported Harvest									
		Issued	Returned			Chinook	Summer Chum	Fall Chum	Coho	Whitefish	Sheefish	Burbot	Pike	Suckers	Grayling
Subsistence Use															
Yukon River near Haul Road Bridge	SY	60	58	97%	44	2,275	320	100	0	35	4	3	6	0	6
Yukon River near Circle and Eagle	SE	94	79	84%	39	3,639	29	413	1	63	1	5	30	33	89
Tanana River Subdistrict 6A	SA	18	17	94%	15	373	99	1,076	1,883	130	2	29	48	7	0
Tanana River Subdistrict 6B	SB	62	59	95%	24	525	411	1,836	7,253	706	5	8	38	105	0
Tanana River Upstream of Subdistrict 6C	SU	32	31	97%	17	0	0	25	0	1,089	0	11	90	46	42
Kantishna River Subdistrict 6A	SK	6	6	100%	5	169	2	265	363	22	0	3	58	10	1
Tolovana River Pike Subdistrict 6B	ST	32	30	94%	14	0	0	0	0	263	54	6	521	53	0
Whitefish/ Sucker	SW	1	1	100%	1	0	0	0	0	498	0	0	0	0	0
Subsistence Permit Subtotals		305	281	92%	159	6,981	861	3,715	9,500	2,806	66	65	791	254	138
Personal Use															
Tanana River Subdistrict 6C	PC	57	55	96%	29	126	175	3	20	0	0	0	0	0	0
Tanana River Whitefish Upstream of Subdistrict 6C	PW	5	4	80%	1	0	0	0	0	50	0	0	0	90	0
Personal Use Permit Subtotals		62	59	95%	30	126	175	3	20	50	0	0	0	90	0
Permit Totals		367	340	93%	189	7,107	1,036	3,718	9,520	2,856	66	65	791	344	138

<sup>a</sup> As of April 1, 2003.

Table 18. Reported subsistence and personal use fish harvested under the authority of a permit, listed by fishery, by community of residence, and by drainage, Yukon Area, 2002. <sup>a</sup>

Community	Harvest by Drainage	Permits		Percent Returned	Number of Permits Returned that Fished	Reported Harvest										
		Issued	Returned			Chinook	Summer Chum	Fall Chum	Coho	Whitefish	Sheefish	Burbot	Pike	Sucker	Grayling	
Subsistence Use Permit																
Central	Yukon River	10	9	90%	4	58	0	0	0	0	0	0	0	0	0	0
Circle	Yukon River	29	23	79%	11	1,533	5	74	0	27	0	1	5	10	10	10
Eagle	Yukon River	43	36	84%	21	1,910	24	339	1	36	1	4	25	23	79	79
FNSB <sup>a</sup>	Yukon River	54	53	98%	40	1,767	295	0	0	35	4	3	6	0	6	6
	Tolovana River	13	13	100%	7	0	0	0	0	0	0	0	14	0	0	0
	Kantishna River	2	2	100%	2	0	2	0	0	9	0	0	55	0	0	0
	Tanana River	11	10	91%	8	159	45	229	1,024	251	1	8	8	4	0	0
	FNSB Subtotal	80	78	98%	57	1926	342	229	1024	295	5	11	83	4	6	6
Healy	Tanana River	5	5	100%	3	0	0	717	2,852	123	1	27	6	3	0	0
	Kantishna River	1	1	100%	1	0	0	114	182	1	0	0	1	0	0	0
	Healy Subtotal	6	6	100%	4	0	0	831	3034	124	1	27	7	3	0	0
Manley	Yukon River	1	1	100%	1	174	17	0	0	0	0	0	0	0	0	0
	Tanana River	11	10	91%	9	336	93	947	1,617	4	1	0	37	5	0	0
	Manley Subtotal	12	11	92%	10	510	110	947	1617	4	1	0	37	5	0	0
Minto	Yukon River	4	2	50%	1	0	0	100	0	0	0	0	0	0	0	0
	Tolovana River	19	17	89%	7	0	0	0	0	263	54	6	507	53	0	0
	Tanana River	21	21	100%	3	0	10	100	250	15	0	0	0	0	0	0
	Kantishna River	1	1	100%	1	19	0	0	0	0	0	0	0	0	0	0
	Minto Subtotal	45	41	91%	12	19	10	200	250	278	54	6	507	53	0	0
Nenana	Yukon River	1	1	100%	1	163	0	0	0	0	0	0	0	0	0	0
	Tanana River	29	27	93%	15	359	360	919	3,363	539	4	2	32	100	0	0
	Kantishna River	2	2	100%	1	150	0	151	181	12	0	3	2	10	1	1
	Nenana Subtotal	32	30	94%	17	672	360	1070	3574	551	4	5	34	110	1	1
Stevens Village	Yukon River	3	3	100%	3	298	8	0	0	0	0	0	0	0	0	0
Upper Tanana Villages (UTV) <sup>a</sup>	Yukon River	7	7	100%	1	11	0	0	0	0	0	0	0	0	0	0
	Tanana River	31	30	97%	15	0	0	25	0	989	0	11	76	46	42	42
	UTV Subtotal	38	37	97%	16	11	0	25	0	989	0	11	76	46	42	42
Other <sup>a</sup>	Yukon River	2	2	100%	0	0	0	0	0	0	0	0	0	0	0	0
	Tanana River	5	5	100%	4	44	2	0	0	502	0	0	17	0	0	0
	Other Subtotal	7	7	100%	4	44	2	0	0	502	0	0	17	0	0	0
Subsistence Use Permit Subtotals		305	281	92%	159	6,981	861	3,715	9,500	2,806	66	65	791	254	138	138
Personal Use Permit																
Nenana	Tanana River	1	1	100%	1	2	15	0	0	0	0	0	0	0	0	0
Upper Tanana Villages (UTV) <sup>a</sup>	Tanana River	2	2	100%	1	0	0	0	0	50	0	0	0	90	0	0
FNSB	Tanana River	59	56	95%	28	124	160	3	20	0	0	0	0	0	0	0
Personal Use Permit Subtotals		62	59	95%	30	126	175	3	20	50	0	0	0	90	0	0
Permit Totals		367	340	93%	189	7,107	1,036	3,718	9,520	2,856	66	65	791	344	138	138

<sup>a</sup> As of April 1, 2003.<sup>b</sup> Fairbanks North Star Borough (FNSB) includes residents from the communities of College, Eielson Air Force Base, Ester, Fairbanks, Ft. Wainwright, North Pole, and Selkirk.<sup>c</sup> Upper Tanana Villages include residents from the communities of Delta Junction, Dot Lake, Northway, Tanacross, and Tok.<sup>d</sup> The category "other" represents residents from any other Alaskan community who were issued a subsistence fishing permit.

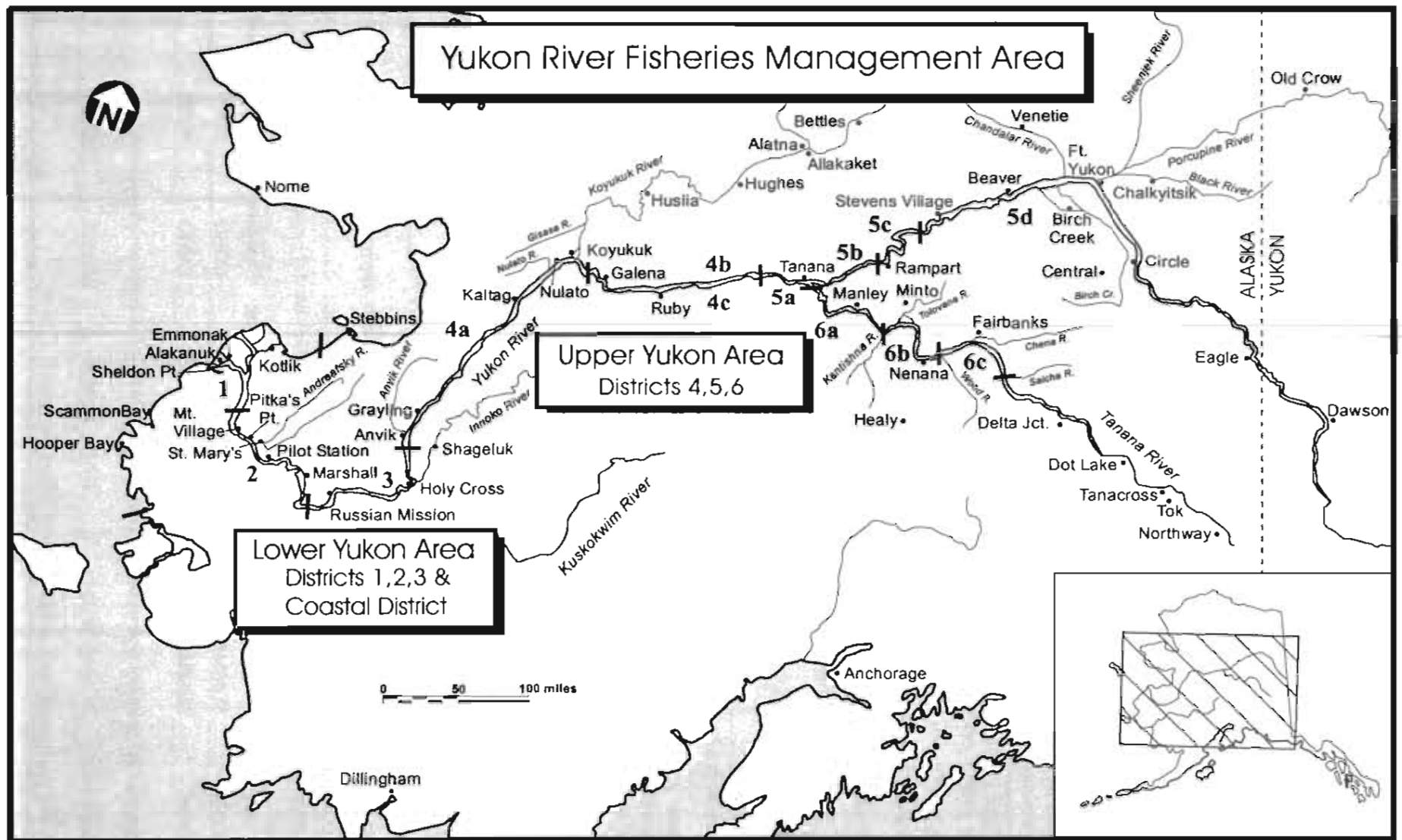


Figure 1. The Yukon Area showing communities and fishing districts, 2002.

Figure 2. Yukon Area post season subsistence salmon harvest survey form, 2002.

Community \_\_\_\_\_ HHID# \_\_\_\_\_  
 Date of Survey \_\_\_\_\_ Person Interviewed \_\_\_\_\_  
 Interviewer \_\_\_\_\_ Relation to HH \_\_\_\_\_

2002 Yukon Area Post-Season Subsistence Salmon Harvest Survey

**CONFIDENTIAL INFORMATION**

1. We would like to make sure we have the correct name and address for your household.

Head of Household \_\_\_\_\_

Mailing Address \_\_\_\_\_

Telephone: \_\_\_\_\_

Permanent Note \_\_\_\_\_

Significant Other \_\_\_\_\_

Permanent Note \_\_\_\_\_

Adult household member was contacted and declined to be interviewed. [ ] Reason given: \_\_\_\_\_

2. Did anyone in your household catch salmon for subsistence use this year? Yes \_\_\_\_\_ No \_\_\_\_\_ (If no, go to area II.)  
 Fish use includes salmon eaten fresh, frozen, dried, smoked, and those used for dog food.

**I. HOUSEHOLDS THAT FISHED**

3. May I have your salmon catch calendar?

Picked up by interviewer \_\_\_\_\_ Didn't get one \_\_\_\_\_ Didn't Use \_\_\_\_\_ Not available \_\_\_\_\_ Already sent in \_\_\_\_\_

If you used a calendar are all the fish harvested on it? Yes \_\_\_\_\_ No \_\_\_\_\_ (if no, estimate remainder on calendar)

4. How many total salmon did you or your fishing group catch this year? (group may include other households)

CHINOOK \_\_\_\_\_ SUMMER CHUM \_\_\_\_\_ FALL CHUM \_\_\_\_\_ COHO \_\_\_\_\_ PINK \_\_\_\_\_

5. How many households help catch these fish? \_\_\_\_\_ (Names) \_\_\_\_\_

6. Did you or anyone in this household commercial fish this year? Yes \_\_\_\_\_ No \_\_\_\_\_

7. If Yes. How much of your households' salmon catch was taken commercially? (i.e. retained by a commercial fisherman during a commercial fishing period for subsistence use. Include female carcasses with roe removed and sold separately and all male salmon.)

CHINOOK \_\_\_\_\_ SUMMER CHUM \_\_\_\_\_ PINK \_\_\_\_\_

- \*\*8. How many total salmon did your household catch for subsistence purposes this year?\*\***

(Include only fish caught by this household, not the group, includes fish taken home from commercial periods.)

CHINOOK \_\_\_\_\_ SUMMER CHUM \_\_\_\_\_ FALL CHUM \_\_\_\_\_ COHO \_\_\_\_\_ PINK \_\_\_\_\_

9. How many salmon did you keep for your household's use? (do not include fish given away)

CHINOOK \_\_\_\_\_ SUMMER CHUM \_\_\_\_\_ FALL CHUM \_\_\_\_\_ COHO \_\_\_\_\_ PINK \_\_\_\_\_

10. Did your household share the salmon catch with any other households? (names, species and numbers)

11. Where do you catch your subsistence salmon? (Circle all that apply and show harvest by area if more than one)

Ocean 1 2 3 4A 4B 4C 5A 5B 5C 5D Innoko Koyukuk Chandalar Porcupine Black

Area \_\_\_\_\_ CHINOOK \_\_\_\_\_ SUMMER CHUM \_\_\_\_\_ FALL CHUM \_\_\_\_\_ COHO \_\_\_\_\_ PINK \_\_\_\_\_

Area \_\_\_\_\_ CHINOOK \_\_\_\_\_ SUMMER CHUM \_\_\_\_\_ FALL CHUM \_\_\_\_\_ COHO \_\_\_\_\_ PINK \_\_\_\_\_

12. What is your households' primary type of salmon fishing gear? (In order of importance 1= primary)

SET NET \_\_\_\_\_ DRIFT NET \_\_\_\_\_ FISH WHEEL \_\_\_\_\_ HOOK & LINE \_\_\_\_\_ DIPNET \_\_\_\_\_ OTHER \_\_\_\_\_

Follow up question: Did you attempt hook & line or dip net fishing for cohos? Y or N

Figure 2. (page 2 of 2).

## II. ALL HOUSEHOLDS

13. Did your household catch any other fish besides salmon? Yes \_\_\_\_\_ No \_\_\_\_\_

(Harvest numbers should include from September/October of last year to now.) (Large Whitefish are 4 pounds or greater)

LG WHITEFISH \_\_\_\_\_ SM WHITEFISH \_\_\_\_\_ SHEEFISH \_\_\_\_\_ BURBOT \_\_\_\_\_ PIKE \_\_\_\_\_ BLACKFISH \_\_\_\_\_

GRAYLING \_\_\_\_\_ SUCKERS \_\_\_\_\_ TROUT (Arctic Char) \_\_\_\_\_ EELS (Lamprey) \_\_\_\_\_ TOMCOD (Saffron) \_\_\_\_\_

14. Was your household given any salmon? Yes \_\_\_\_\_ No \_\_\_\_\_ Code: S=Subsistence, C=Commercial, & T=Test Fish

Code: \_\_\_\_\_ Fishermen/Project (Name) \_\_\_\_\_

CHINOOK \_\_\_\_\_ SUMMER CHUM \_\_\_\_\_ FALL CHUM \_\_\_\_\_ COHO \_\_\_\_\_ PINK \_\_\_\_\_

Code: \_\_\_\_\_ Fishermen/Project (Name) \_\_\_\_\_

CHINOOK \_\_\_\_\_ SUMMER CHUM \_\_\_\_\_ FALL CHUM \_\_\_\_\_ COHO \_\_\_\_\_ PINK \_\_\_\_\_

15. How many people live in your household? \_\_\_\_\_

16. How many dogs (including puppies) does your household have? \_\_\_\_\_ (If none go to question 20)

17. Do you feed whole salmon to your dogs? Yes \_\_\_\_\_ No \_\_\_\_\_ Only Feed Scraps \_\_\_\_\_ (If no go to question 20)

18. Were any of the salmon put up for the dogs from the commercial fishery? Yes \_\_\_\_\_ No \_\_\_\_\_

19. Estimate harvest of salmon put up for dogs this year by fishery (numbers should represent whole fish, not scraps):

(subsistence) CHINOOK \_\_\_\_\_ SUMMER CHUM \_\_\_\_\_ FALL CHUM \_\_\_\_\_ COHO \_\_\_\_\_

(commercial) CHINOOK \_\_\_\_\_ SUMMER CHUM \_\_\_\_\_

20. Did your household meet its subsistence salmon needs this year? Yes \_\_\_\_\_ No \_\_\_\_\_ Could not estimate \_\_\_\_\_

21. How was subsistence salmon fishing for your household this year?

Chinook: \_\_\_\_\_ Very Good \_\_\_\_\_ Average \_\_\_\_\_ Very Poor \_\_\_\_\_ If Poor, why? \_\_\_\_\_

Summer Chum: \_\_\_\_\_ Very Good \_\_\_\_\_ Average \_\_\_\_\_ Very Poor \_\_\_\_\_ If Poor, why? \_\_\_\_\_

Fall Chum: \_\_\_\_\_ Very Good \_\_\_\_\_ Average \_\_\_\_\_ Very Poor \_\_\_\_\_ If Poor, why? \_\_\_\_\_

Coho: \_\_\_\_\_ Very Good \_\_\_\_\_ Average \_\_\_\_\_ Very Poor \_\_\_\_\_ If Poor, why? \_\_\_\_\_

Additional Comments: \_\_\_\_\_

THANK YOU FOR YOUR HELP. THIS INFORMATION IS USED TO DOCUMENT THE SUBSISTENCE SALMON HARVEST WITHIN THE YUKON RIVER DRAINAGE AND TO TRY TO ENSURE THERE WILL BE ENOUGH SALMON FOR THE FUTURE.

Interviewer, please note any comments about this interview or anything of value for assisting data analysis.

**THIS HOUSEHOLD'S TOTAL SUBSISTENCE SALMON CATCH** (This area is to be filled in by the surveyor after the interview.)  
(Totals from question 8.)

CHINOOK \_\_\_\_\_ SUMMER CHUM \_\_\_\_\_ FALL CHUM \_\_\_\_\_ COHO \_\_\_\_\_ PINK \_\_\_\_\_

**THIS HOUSEHOLD'S TOTAL SUBSISTENCE SALMON USE** (This area is to be filled in by the surveyor after the interview.)  
(Add numbers obtained from question 9 to numbers obtained from question 14.)

CHINOOK \_\_\_\_\_ SUMMER CHUM \_\_\_\_\_ FALL CHUM \_\_\_\_\_ COHO \_\_\_\_\_ PINK \_\_\_\_\_

Complete Survey \_\_\_\_\_ Partial Survey \_\_\_\_\_ No Survey \_\_\_\_\_

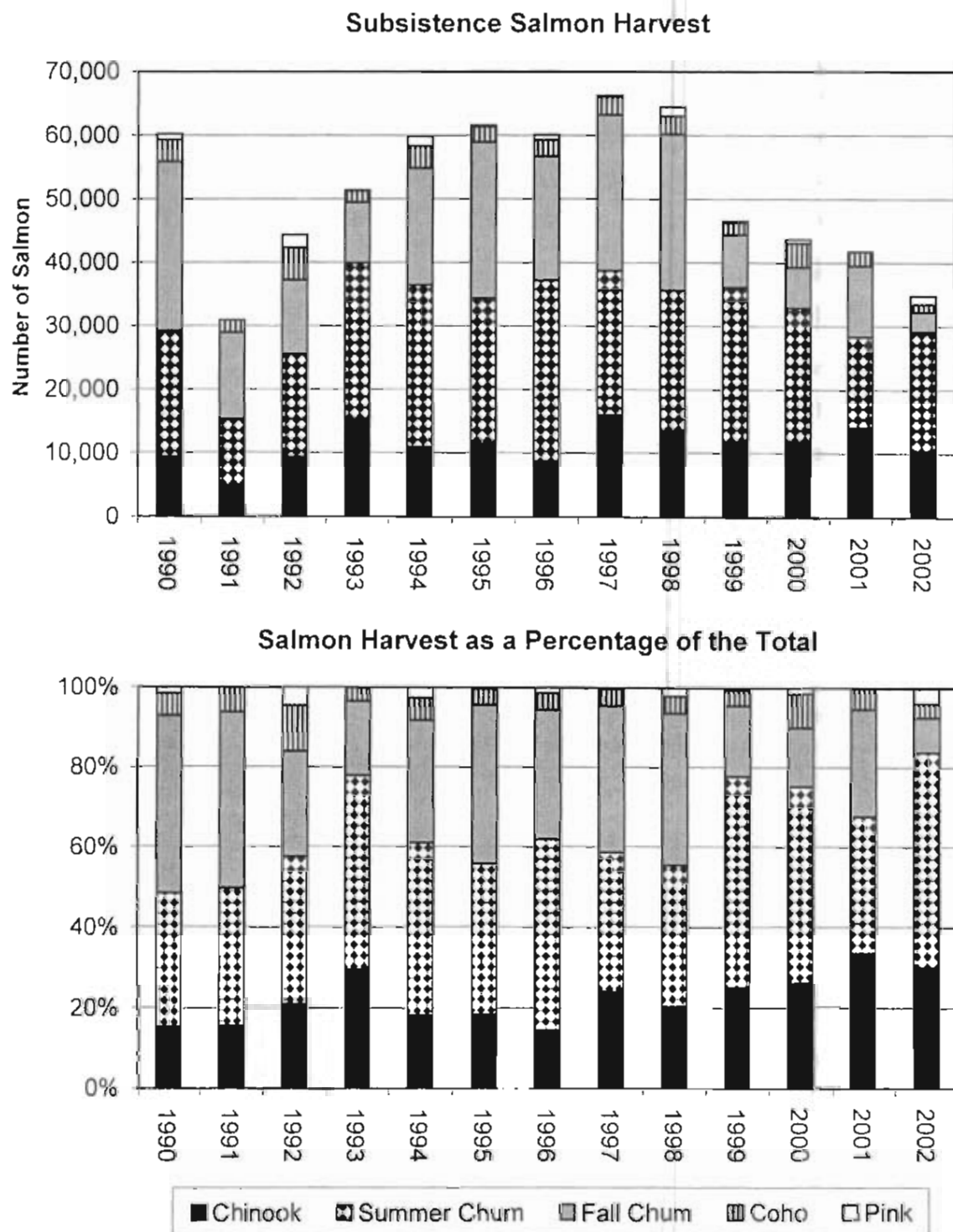


Figure 3. Yukon Area subsistence salmon harvest reported on catch calendars from 1990 to 2002.

5 AAC 99.015 JOINT BOARD NONSUBSISTENCE AREAS. (4) The Fairbanks Nonsubsistence Area is comprised of the following: within Unit 20(A) as defined by 5 AAC 92.450(20)(A) east of the Wood River drainage and south of the Rex Trail but including the upper Wood River drainage south of its confluence with Chicken Creek, within Unit 20(B) as defined by 5AAC 92.450(20)(B) the North Star Borough and that portion of the Washington Creek drainage east of the Elliot Highway, within 20(D) as defined by 5 AAC 92.450(20)(D) west of the Tanana River between its confluence's with the Johnson and Delta Rivers, west of the west bank of the Johnson River, and north and west of the Volkmar drainage, including the Goodpaster River drainage, and within Unit 25(C) as defined by 5 AAC 92.450(25)(C) the Preacher and Beaver Creek drainages.

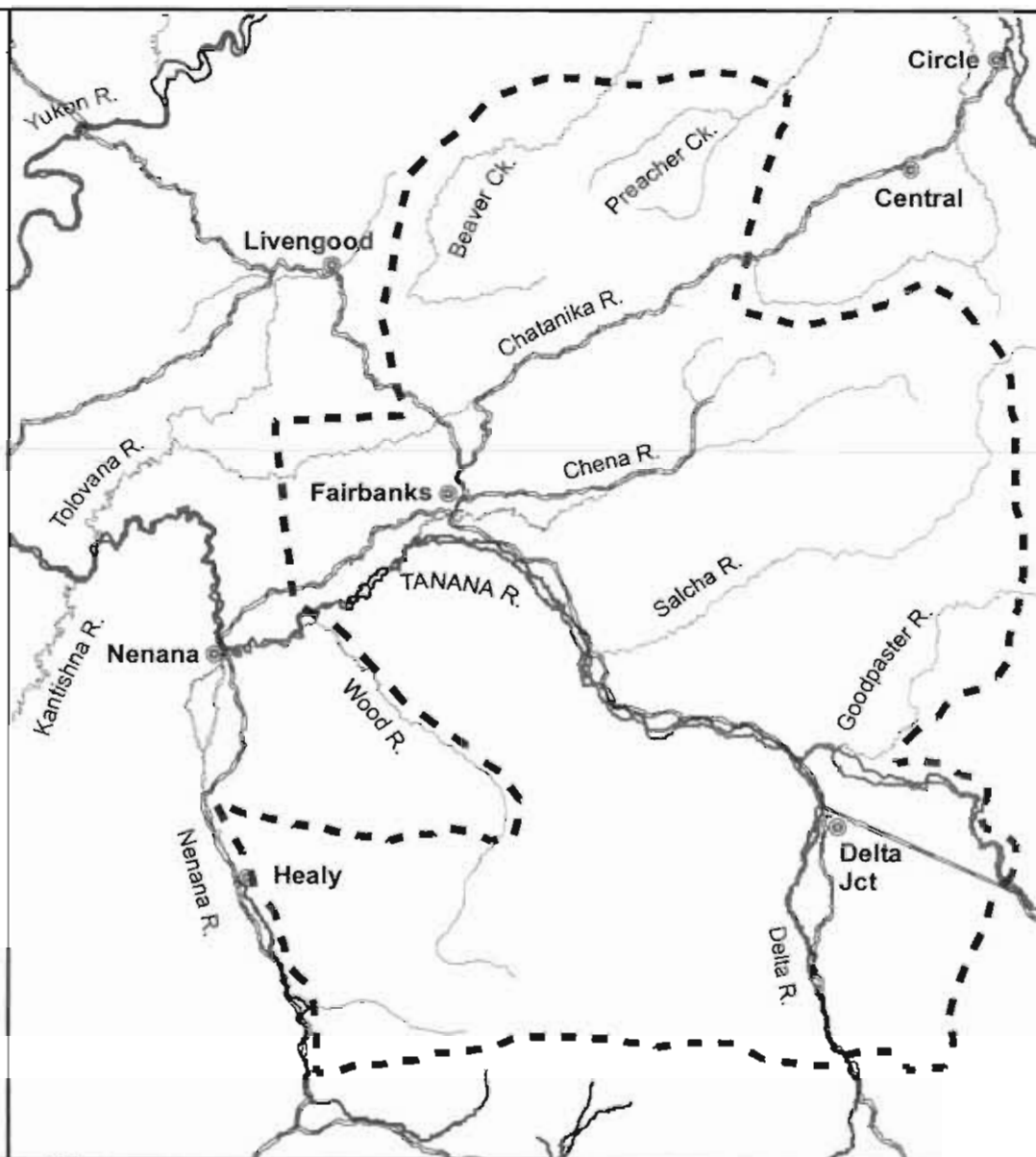
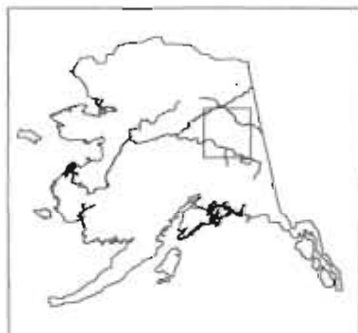


Figure 4. The Fairbanks Nonsubsistence Area, 2002.

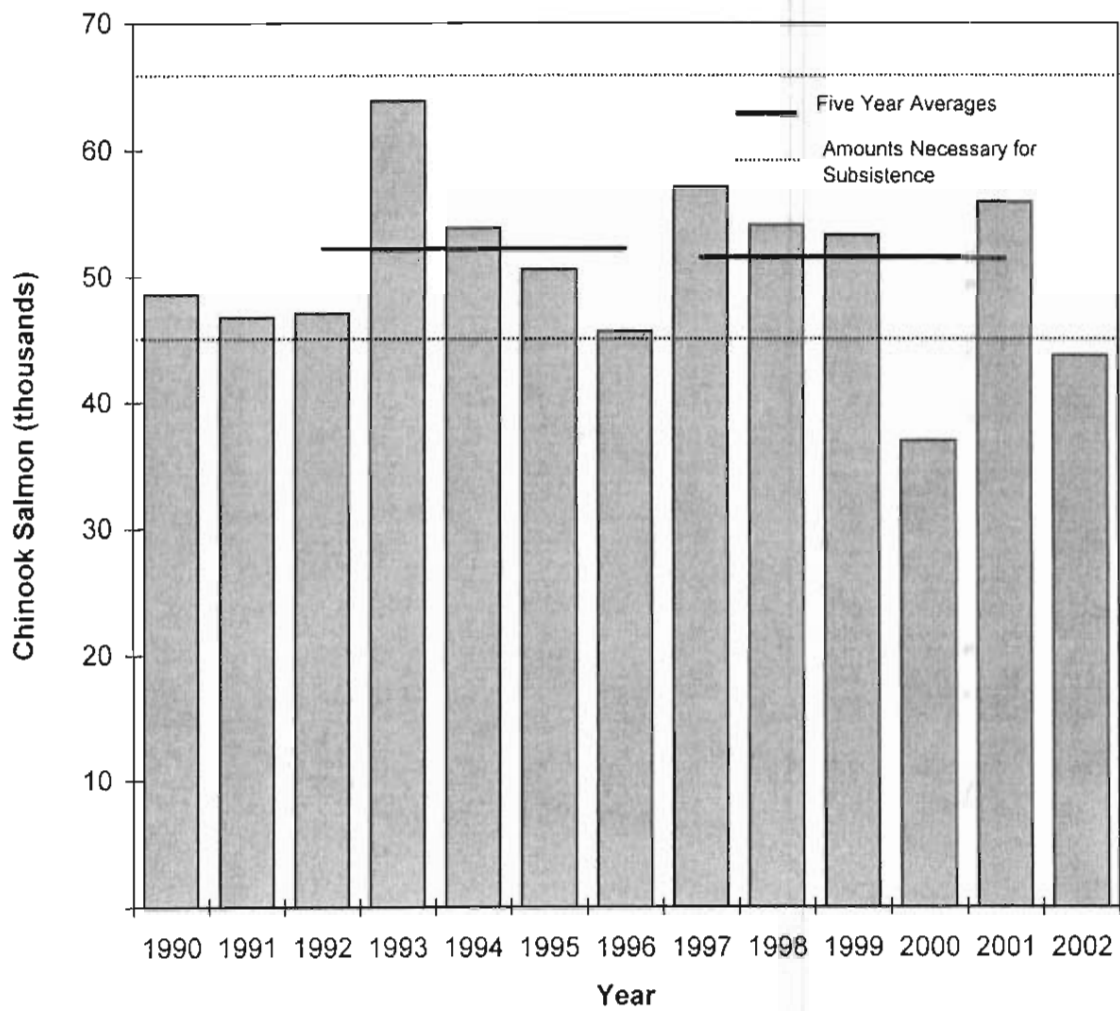


Figure 5. Estimated chinook salmon subsistence harvest, Yukon Area, 1990 to 2002. Subsistence salmon harvest information was not collected in the Coastal District in 1990 and 1991.

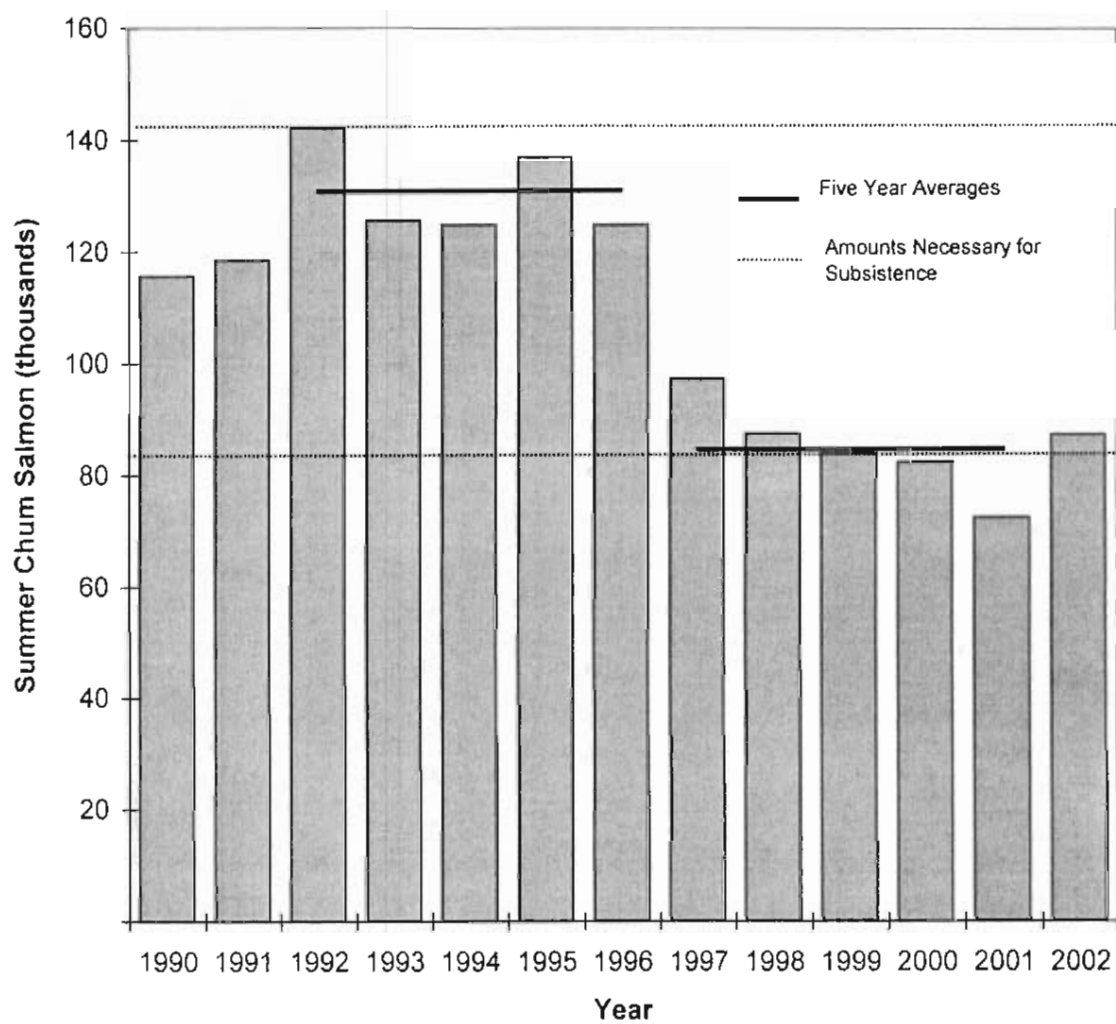


Figure 6. Estimated summer chum salmon subsistence harvest, Yukon Area, 1990 to 2002. Summer chum salmon carcasses retained for subsistence use from the commercial fishery are not included. Subsistence salmon harvest information was not collected in the Coastal District in 1990 and 1991.

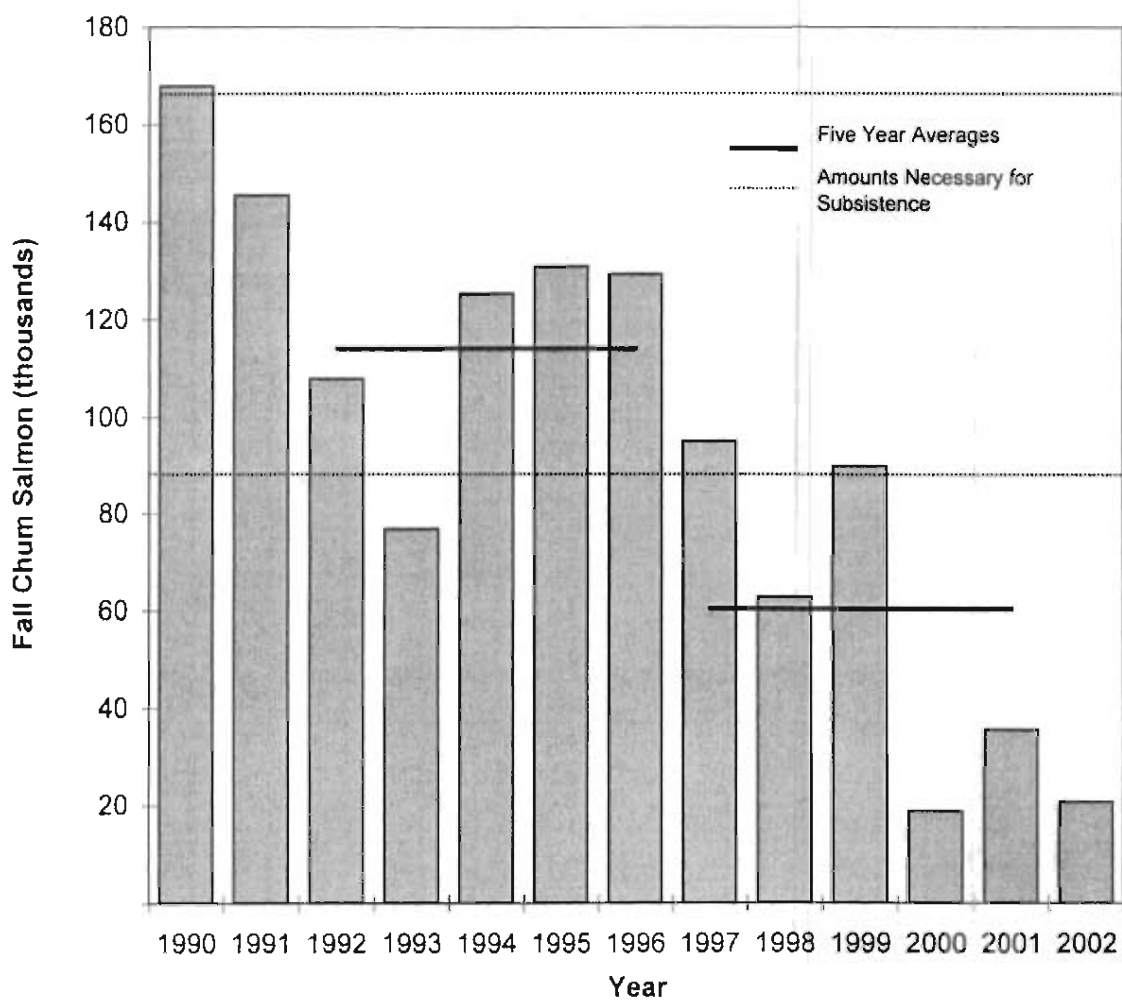


Figure 7. Estimated fall chum salmon subsistence harvest, Yukon Area, 1990 to 2002. Fall chum salmon carcasses retained for subsistence use from the commercial fishery are not included (most significant in 1995 and 1996). Subsistence salmon harvest information was not collected in the Coastal District in 1990 and 1991.

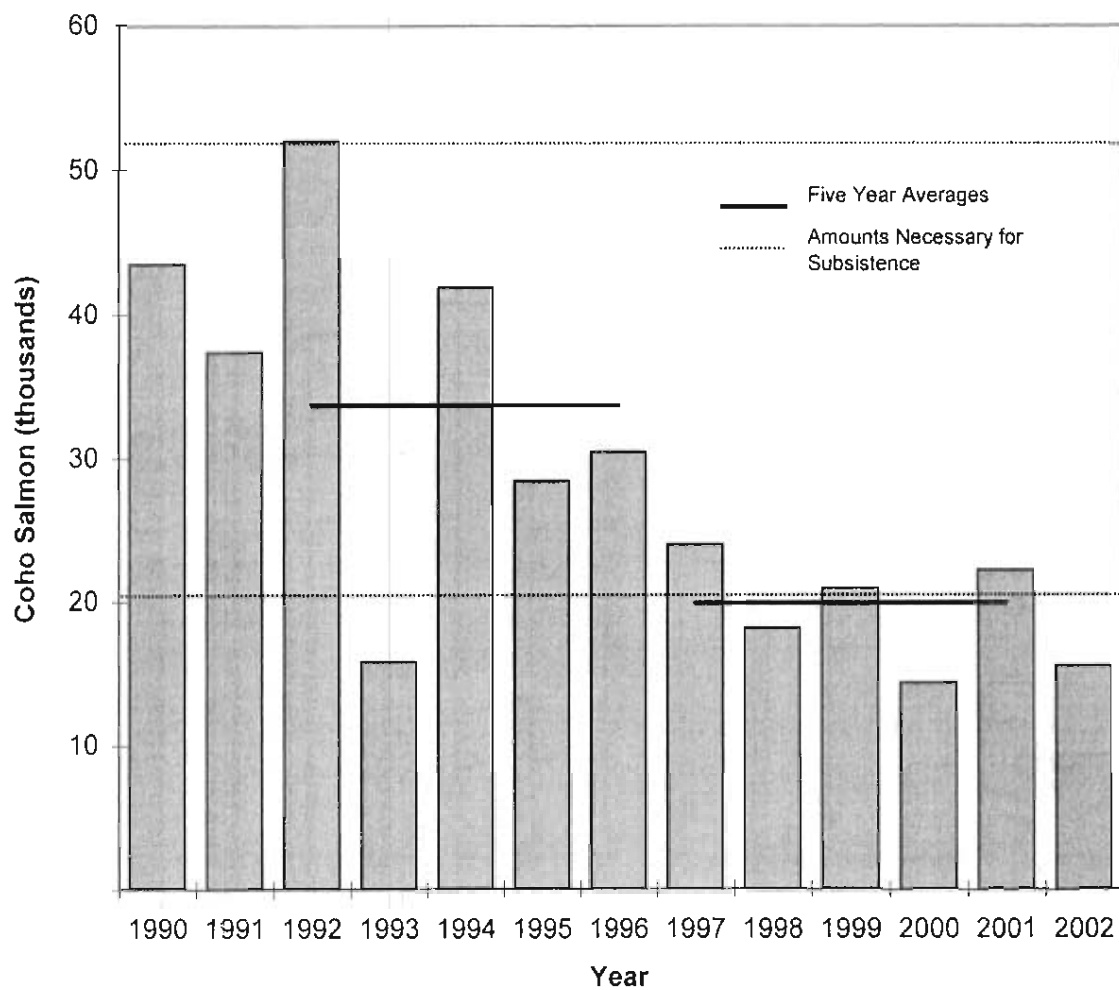


Figure 8. Estimated coho salmon subsistence harvest, Yukon Area, 1990 to 2002. Subsistence salmon harvest information was not collected in the Coastal District in 1990 and 1991.

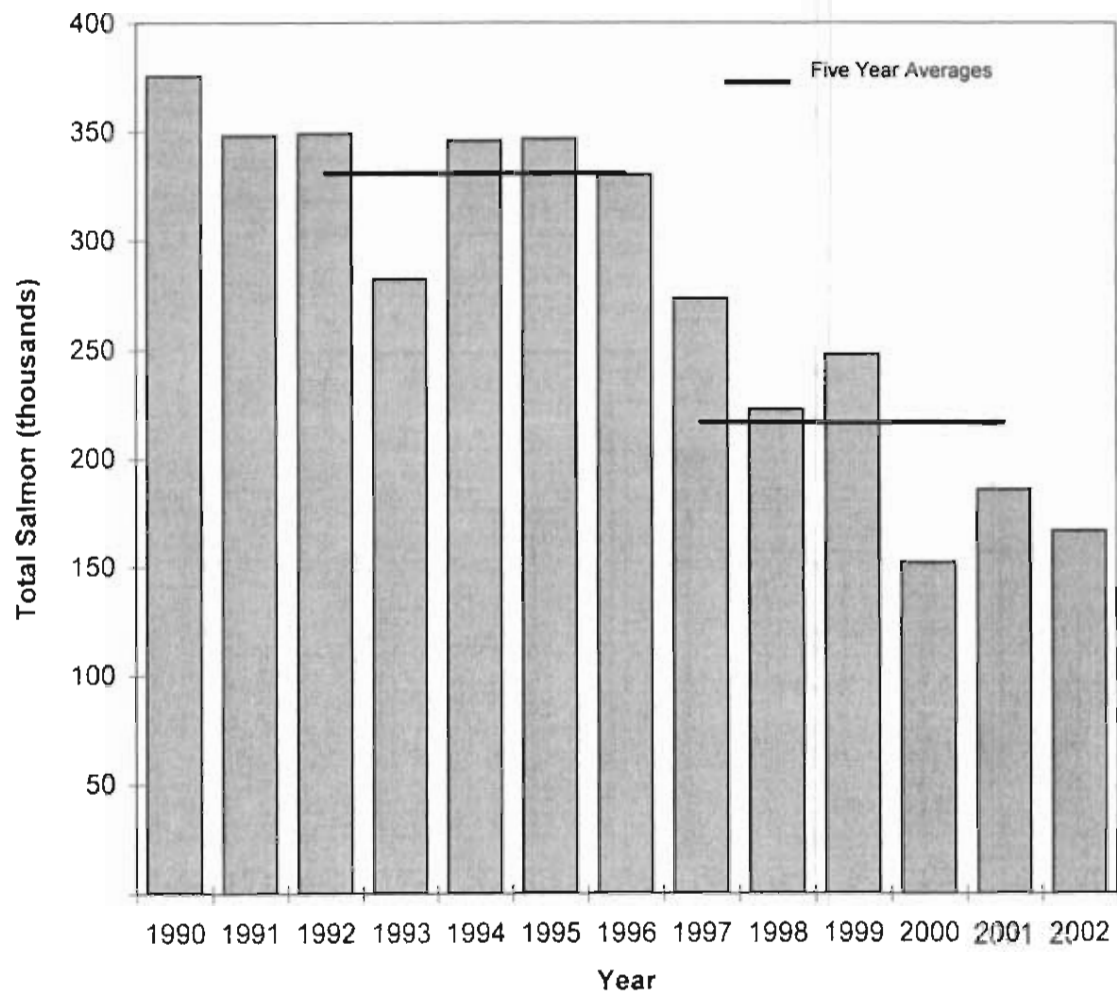


Figure 9. Estimated total salmon subsistence harvest, Yukon Area, 1990 to 2002. Subsistence salmon harvest information was not collected in the Coastal District in 1990 and 1991.

Appendix A.1. Estimated chinook salmon subsistence harvest by residents of surveyed villages, by harvest stratum, with village and district totals, Yukon Area, 2002. <sup>a</sup>

Community	Unknown				Does Not Harvest Salmon				Light Harvester				Medium Harvester				Heavy Harvester				Combined			
	N	n	Mean	SE	N	n	Mean	SE	N	n	Mean	SE	N	n	Mean	SE	N	n	Mean	SE	Total N	n	Total	Est CI(95%) (+/-)
Hooper Bay	2	0	-	-	92	23	0.5	0.2	93	24	2.1	0.4	13	12	2.4	0.2	1	1	5.0	0.0	201	60	282	88
Scammon Bay	0	0	-	-	30	8	0.3	0.2	50	15	15.8	3.0	2	2	16.0	0.0	0	0	-	-	82	25	830	301
Coastal District	2	0	0.0	0.0	122	31	0.5	0.2	143	39	6.9	1.1	15	14	4.2	0.1	1	1	5.0	0.0	283	85	1,112	314
Nunam Iqaa <sup>b</sup>	1	1	0.0	0.0	10	5	0.0	0.0	19	15	19.8	3.1	2	2	6.0	0.0	0	0	-	-	32	23	388	118
Alakanuk	0	0	-	-	53	14	2.4	0.8	71	18	16.3	4.1	7	7	6.7	0.0	0	0	-	-	131	39	1,336	587
Emmonak	2	1	0.0	-	79	21	3.2	1.5	71	30	6.1	1.4	9	9	18.6	0.0	0	0	-	-	161	61	856	303
Kotlik	0	0	-	-	31	6	7.2	4.3	50	13	15.3	5.0	7	5	32.8	4.5	2	2	128.5	0.0	90	26	1,474	564
District 1	3	2	0.0	0.0	173	46	3.5	1.1	211	76	13.0	1.9	25	23	18.2	1.3	2	2	128.5	0.0	414	149	4,054	877
Mountain Village	1	1	0.0	0.0	49	10	3.7	2.7	89	17	12.0	3.7	10	10	26.8	0.0	0	0	-	-	149	38	1,523	702
Pitkas Point	0	0	-	-	5	3	2.0	1.3	18	15	21.1	2.1	2	1	88.0	-	0	0	-	-	25	19	566	75
St. Mary's	5	2	0.0	0.0	34	8	0.4	0.3	64	15	23.6	5.4	15	13	34.8	3.2	0	0	-	-	118	38	2,045	892
Pilot Station	0	0	-	-	47	10	4.4	2.3	51	23	34.3	10.9	4	3	6.7	3.3	0	0	-	-	102	36	1,985	1,119
Marshall	2	2	0.0	0.0	19	5	7.8	5.7	53	14	36.5	7.1	2	2	98.0	0.0	0	0	-	-	76	23	2,282	770
District 2	8	5	0.0	0.0	154	36	3.6	1.3	275	84	24.2	3.0	33	29	36.0	1.5	0	0	-	-	470	154	8,401	1,680
Russian Mission	0	0	-	-	24	5	21.8	9.4	37	9	31.0	8.4	2	2	99.5	0.0	0	0	-	-	63	16	1,869	753
Holy Cross	0	0	-	-	21	3	0.0	0.0	35	16	43.8	9.3	4	4	69.3	0.0	0	0	-	-	60	23	1,813	839
Shageluk	2	1	0.0	-	11	6	5.7	2.7	14	12	7.2	1.7	3	3	16.7	0.0	3	2	75.0	14.4	33	24	439	114
District 3	2	1	0.0	0.0	56	14	10.5	4.0	86	37	32.4	5.2	9	9	58.4	0.0	3	2	75.0	14.0	156	63	4,121	994
Anvik	0	0	-	-	17	13	4.8	1.8	13	12	20.5	1.6	3	3	119.7	0.0	0	0	-	-	33	26	708	72
Grayling	0	0	-	-	13	2	1.0	0.9	26	6	77.3	39.3	7	7	32.1	0.0	0	0	-	-	46	15	2,249	2,004
Kaltag	0	0	-	-	15	5	0.0	0.0	40	11	29.9	6.1	3	2	79.5	10.1	0	0	-	-	58	18	1,435	489
Nulato	0	0	-	-	50	9	5.0	2.6	37	11	35.0	7.1	6	4	38.0	9.5	1	1	0.0	0.0	94	25	1,773	591
Koyukuk	0	0	-	-	11	8	0.0	0.0	14	12	8.4	1.7	1	1	45.0	0.0	1	1	160.0	0.0	27	22	323	48
Galena	1	1	23.0	0.0	112	30	2.2	0.9	47	14	18.1	4.7	7	7	56.6	0.0	1	0	-	-	168	52	1,522	474
Ruby	0	0	-	-	47	9	2.8	2.5	12	4	8.7	7.1	6	6	55.7	0.0	2	2	192.0	0.0	67	21	954	285
Huslia	1	1	15.0	0.0	54	11	1.2	0.7	23	7	2.0	1.2	3	2	32.5	10.1	0	0	-	-	81	21	222	110
Hughes	0	0	-	-	9	8	0.0	0.0	8	7	3.7	0.6	3	3	12.3	0.0	0	0	-	-	20	18	67	10
Allakaket	0	0	-	-	32	4	0.0	0.0	12	4	14.5	11.8	5	5	5.2	0.0	0	0	-	-	49	13	200	278
Alatna	0	0	-	-	3	3	0.0	0.0	3	2	0.0	0.0	0	0	-	-	0	0	-	-	6	5	0	0
Bettles	0	0	-	-	22	17	0.0	0.0	0	0	-	-	0	0	-	-	0	0	-	-	22	17	0	0
District 4	2	2	19.0	0.0	385	119	2.1	0.5	235	90	25.9	4.7	44	40	45.1	1.6	5	4	108.8	0.0	671	255	9,452	2,238
Tanana	3	2	0.0	0.0	69	11	1.1	0.8	17	8	20.6	8.7	5	5	23.6	0.0	8	8	229.4	0.0	102	34	2,379	311
Rampart	1	0	-	-	6	5	15.6	6.1	6	5	101.4	35.7	2	1	75.0	-	1	0	-	-	16	11	852	427
Stevens Village	3	1	0.0	-	12	9	18.2	6.4	11	9	30.3	6.4	2	1	242.0	-	0	0	-	-	28	20	1,036	205
Birch Creek	0	0	-	-	7	4	1.0	0.7	1	1	60.0	0.0	0	0	-	-	0	0	-	-	8	5	67	9
Beaver	0	0	-	-	11	9	6.0	2.6	12	9	53.0	11.0	2	0	-	-	0	0	-	-	25	18	702	265
Fort Yukon <sup>c</sup>	4	0	-	-	108	27	3.9	2.2	39	6	5.0	4.4	12	9	68.4	12.8	1	1	12.0	0.0	164	45	2,348	654
Venetie	4	1	0.0	-	28	19	0.0	0.0	5	5	1.4	0.0	2	1	35.0	-	1	1	0.0	0.0	40	27	77	0
Chalkyitsik	3	0	-	-	30	22	0.9	0.3	7	5	0.4	0.2	0	0	-	-	0	0	-	-	40	27	26	18
District 5	16	4	0.0	0.0	271	106	3.3	1.0	98	50	22.4	3.5	25	17	65.7	6.1	11	10	167.9	0.0	423	187	7,487	905
Survey Totals	35	14	1.1	0.0	1,161	352	3.0	0.4	1,048	376	20.5	1.5	151	132	38.8	1.2	22	19	130.8	1.9	2,417	893	34,626	3,241

<sup>a</sup> The total number of households (N), the number of households contacted (n), standard error (SE), and includes 95 percent confidence interval, CI (95%).<sup>b</sup> Formerly known as Sheldon or Sheldon's Point.<sup>c</sup> Total includes a community harvest of 900 chinook salmon.

Appendix A.2. Estimated summer chum salmon subsistence harvest by residents of surveyed villages, by harvest stratum, with village and district totals, Yukon Area, 2002.\*

Community	Unknown				Does Not Harvest Salmon				Light Harvester				Medium Harvester				Heavy Harvester				Combined			
	N	n	Mean	SE	N	n	Mean	SE	N	n	Mean	SE	N	n	Mean	SE	N	n	Mean	SE	Total		Est	CI(95%)
																					N	n		
Hooper Bay	2	0	-	-	92	23	42.6	12.8	93	24	52.9	7.8	13	13	66.1	0.0	1	1	80.0	0.0	201	61	9,780	2,707
Scammon Bay	0	0	-	-	30	8	3.6	2.6	50	15	88.5	16.6	2	2	125.0	0.0	0	0	-	-	82	25	4,793	1,639
Coastal District	2	0	0.0	0.0	122	31	33.1	9.6	143	39	65.4	7.7	15	15	73.9	0.0	1	1	80.0	0.0	283	86	14,573	3,165
Nunam Iqaa <sup>a</sup>	1	1	0.0	0.0	10	5	0.0	0.0	19	15	88.8	11.0	2	2	79.0	0.0	0	0	-	-	32	23	1,846	412
Alakanuk	0	0	-	-	53	14	23.6	7.2	71	16	71.6	16.1	7	7	72.1	0.0	0	0	-	-	131	39	6,842	2,363
Emmonak	2	1	0.0	-	79	21	20.9	13.6	71	30	40.3	10.1	9	9	171.2	0.0	0	0	-	-	161	61	6,050	2,540
Kotlik	0	0	-	-	31	6	52.7	21.0	50	13	62.0	24.1	7	5	116.4	11.7	2	2	252.5	0.0	90	26	6,052	2,691
District 1	3	2	0.0	0.0	173	46	26.2	7.6	211	76	60.4	8.6	25	23	120.6	3.3	2	2	252.5	0.0	414	149	20,791	4,409
Mountain Village	1	1	0.0	0.0	49	10	15.3	13.4	89	17	42.5	10.3	10	10	131.8	0.0	0	0	-	-	149	38	5,858	2,219
Pitkas Point	0	0	-	-	5	3	0.0	0.0	18	15	33.2	2.8	2	1	7.0	-	0	0	-	-	25	19	813	101
St. Mary's	5	2	0.0	0.0	34	8	0.4	0.3	64	14	76.3	21.0	15	13	122.2	7.6	0	0	-	-	118	37	6,733	2,649
Pilot Station	0	0	-	-	47	10	21.9	12.3	51	22	47.7	16.5	4	3	33.3	16.7	0	0	-	-	102	35	3,597	2,178
Marshall	2	2	0.0	0.0	19	5	26.6	20.0	53	13	26.3	7.0	2	2	48.5	0.0	0	0	-	-	76	22	1,997	1,045
District 2	8	5	0.0	0.0	154	36	14.9	6.2	275	81	47.7	7.0	33	29	102.9	4.1	0	0	-	-	470	151	18,797	4,217
Russian Mission	0	0	-	-	24	5	4.0	3.1	37	9	5.7	2.0	2	2	30.0	0.0	0	0	-	-	63	16	370	208
Holy Cross	0	0	-	-	21	3	0.0	0.0	35	16	4.1	1.0	4	4	2.0	0.0	0	0	-	-	60	23	155	70
Shageluk	2	1	0.0	-	11	6	1.7	1.1	14	12	0.9	0.2	3	3	216.7	0.0	3	2	425.0	158.7	33	24	1,956	934
District 3	2	1	0.0	0.0	56	14	2.0	1.4	86	37	4.3	0.9	9	9	79.8	0.0	3	2	425.0	159.0	156	63	2,481	959
Anvik	0	0	-	-	17	13	0.5	0.2	13	12	70.0	12.2	3	3	56.7	0.0	0	0	-	-	33	28	1,089	312
Grayling	0	0	-	-	13	2	0.0	0.0	26	6	8.8	4.6	7	7	154.4	0.0	0	0	-	-	46	15	1,311	236
Kaitag	0	0	-	-	15	5	0.0	0.0	40	11	5.3	2.3	3	2	6.5	3.8	0	0	-	-	58	18	234	189
Nulato	0	0	-	-	50	9	2.2	1.5	37	11	3.9	1.8	6	5	2.2	0.5	1	1	0.0	0.0	94	26	269	202
Koyukuk	0	0	-	-	11	8	0.0	0.0	14	12	18.8	7.1	1	1	0.0	0.0	1	1	162.0	0.0	27	22	426	195
Galena	1	1	300.0	0.0	112	30	0.0	0.0	47	14	5.8	2.2	7	7	19.6	0.0	1	0	-	-	168	52	712	203
Ruby	0	0	-	-	47	9	0.0	0.0	12	4	0.0	0.0	6	6	89.5	0.0	2	2	434.5	0.0	67	21	1,406	0
Huslia	1	1	60.0	0.0	54	11	5.0	3.1	23	7	54.7	25.4	3	2	530.0	271.4	0	0	-	-	81	21	3,178	1,994
Hughes	0	0	-	-	9	8	0.0	0.0	8	7	65.0	12.4	3	3	189.7	0.0	0	0	-	-	20	18	1,089	195
Allakaket	0	0	-	-	32	4	22.5	12.3	12	4	132.0	100.3	5	5	787.6	0.0	0	0	-	-	49	13	6,242	2,482
Alatna	0	0	-	-	3	3	0.0	0.0	3	2	1.5	0.8	0	0	-	-	0	0	-	-	6	5	5	5
Bettles	0	0	-	-	22	17	0.0	0.0	0	0	-	-	0	0	-	-	0	0	-	-	22	17	0	0
District 4	2	2	180.0	0.0	385	119	2.9	1.1	235	90	23.0	5.8	44	41	183.1	18.5	5	4	206.2	0.0	671	256	15,960	3,236
Tanana	3	2	0.0	0.0	69	11	0.0	0.0	17	8	3.2	1.8	5	5	2.6	0.0	8	8	406.6	0.0	102	34	3,321	61
Rampart	1	0	-	-	6	5	0.0	0.0	6	5	2.4	0.9	2	1	0.0	-	1	0	-	-	16	11	14	12
Stevens Village	3	1	0.0	-	12	9	0.0	0.0	11	9	0.3	0.1	2	1	0.0	-	0	0	-	-	28	20	4	3
Birch Creek	0	0	-	-	7	4	0.0	0.0	1	1	0.0	0.0	0	0	-	-	0	0	-	-	8	5	0	0
Beaver	0	0	-	-	11	9	0.8	0.3	12	9	5.6	1.7	2	0	-	-	0	0	-	-	25	18	77	41
Fort Yukon <sup>a</sup>	4	0	-	-	108	27	0.9	0.8	39	8	0.0	0.0	12	8	11.0	3.7	1	1	0.0	0.0	164	44	1,832	191
Venetie	4	1	0.0	-	28	19	0.0	0.0	5	5	2.6	0.0	2	1	0.0	-	1	1	0.0	0.0	40	27	13	0
Chalkyitsik	3	0	-	-	30	22	0.0	0.0	7	5	0.0	0.0	0	0	-	-	0	0	-	-	40	27	0	0
District 5	18	4	0.0	0.0	271	106	0.4	0.3	98	50	1.6	0.3	25	16	5.8	1.8	11	10	295.7	0.0	423	186	5,261	205
Survey Totals	35	14	10.3	0.0	1,161	352	10.5	1.8	1,048	373	39.2	3.0	151	133	108.9	5.5	22	19	279.3	21.6	2,417	891	77,864	7,661

\* The total number of households (N), the number of households contacted (n), standard error (SE), and includes 95 percent confidence interval, CI (95%).

<sup>b</sup> Formerly known as Sheldon or Sheldon's Point<sup>c</sup> Total includes a community harvest of 1,600 summer chum salmon

Appendix A.3. Estimated fall chum salmon subsistence harvest by residents of surveyed villages, by harvest stratum, with village and district totals, Yukon Area, 2002. \*

Community	Unknown				Does Not Harvest Salmon				Light Harvester				Medium Harvester				Heavy Harvester				Combined			
																					Total		Est	
	N	n	Mean	SE	N	n	Mean	SE	N	n	Mean	SE	N	n	Mean	SE	N	n	Mean	SE	N	n	Total	CI(95%)
Hooper Bay	2	0	-	-	92	24	0.2	0.1	93	24	0.2	0.1	13	12	0.1	0.0	1	1	0.0	0.0	201	81	44	38
Scammon Bay	0	0	-	-	30	8	0.0	0.0	50	15	4.8	2.1	2	2	0.0	0.0	0	0	-	-	82	25	240	212
Coastal District	2	0	0.0	0.0	122	32	0.2	0.1	143	39	1.8	0.7	15	14	0.1	0.0	1	1	0.0	0.0	283	86	284	216
Nunam Iqua *	1	1	0.0	0.0	10	5	0.0	0.0	19	15	14.9	4.3	2	2	0.0	0.0	0	0	-	-	32	23	284	162
Alakanuk	0	0	-	-	53	14	1.2	0.8	71	18	0.8	0.4	7	7	13.6	0.0	0	0	-	-	131	39	222	102
Emmonak	2	1	0.0	-	79	21	0.0	0.0	71	30	4.0	1.5	9	9	0.8	0.0	0	0	-	-	181	61	296	218
Kotlik	0	0	-	-	31	6	0.0	0.0	50	13	0.3	0.2	7	5	1.4	0.5	2	2	0.0	0.0	90	26	29	23
District 1	3	2	0.0	0.0	173	46	0.4	0.2	211	76	3.1	0.6	25	23	4.5	0.1	2	2	0.0	0.0	414	149	831	291
Mountain Village	1	1	0.0	0.0	49	10	0.0	0.0	89	17	1.7	1.5	10	10	1.5	0.0	0	0	-	-	149	38	172	277
Pitkas Point	0	0	-	-	5	3	0.0	0.0	18	15	0.8	0.3	2	1	0.0	-	0	0	-	-	25	19	16	12
St. Mary's	5	2	0.0	0.0	34	8	0.0	0.0	64	15	0.0	0.0	15	14	6.9	1.6	0	0	-	-	118	39	103	47
Pilot Station	0	0	-	-	47	10	0.0	0.0	51	23	0.0	0.0	4	3	0.0	0.0	0	0	-	-	102	36	0	0
Marshall	2	2	0.0	0.0	19	5	0.0	0.0	53	14	6.4	4.1	2	2	0.0	0.0	0	0	-	-	78	23	341	431
District 2	8	5	0.0	0.0	154	36	0.0	0.0	275	84	1.9	0.9	33	30	3.6	0.7	0	0	-	-	470	155	631	514
Russian Mission	0	0	-	-	24	5	0.0	0.0	37	9	4.4	3.8	2	2	0.0	0.0	0	0	-	-	63	18	164	280
Holy Cross	0	0	-	-	21	3	0.0	0.0	35	16	0.0	0.0	4	4	0.0	0.0	0	0	-	-	80	23	0	0
Shageluk	2	1	0.0	-	11	6	0.0	0.0	14	12	0.0	0.0	3	3	0.0	0.0	3	2	0.0	0.0	33	24	0	0
District 3	2	1	0.0	0.0	56	14	0.0	0.0	86	37	1.9	1.6	9	9	0.0	0.0	3	2	0.0	0.0	156	63	164	280
Anvik	0	0	-	-	17	13	0.1	0.0	13	12	0.0	0.0	3	3	133.3	0.0	0	0	-	-	33	28	401	1
Grayling	0	0	-	-	13	2	4.0	3.7	26	6	0.0	0.0	7	7	0.0	0.0	0	0	-	-	46	15	52	94
Kaitag	0	0	-	-	15	5	0.0	0.0	40	11	0.0	0.0	3	2	0.0	0.0	0	0	-	-	58	18	0	0
Nulato	0	0	-	-	50	9	0.0	0.0	37	11	0.0	0.0	6	5	0.0	0.0	1	1	0.0	0.0	94	26	0	0
Koyukuk	0	0	-	-	11	8	0.0	0.0	14	12	0.0	0.0	1	1	110.0	0.0	1	1	145.0	0.0	27	22	255	0
Galena	1	0	-	-	112	30	0.0	0.0	47	14	3.7	2.9	7	7	24.9	0.0	1	0	-	-	168	51	349	275
Ruby	0	0	-	-	47	9	0.0	0.0	12	4	0.0	0.0	6	6	0.0	0.0	2	2	39.0	0.0	67	21	78	0
Huslia	1	1	0.0	0.0	54	11	0.0	0.0	23	7	0.0	0.0	3	2	0.0	0.0	0	0	-	-	81	21	0	0
Hughes	0	0	-	-	9	8	0.0	0.0	8	7	0.0	0.0	3	3	0.0	0.0	0	0	-	-	20	18	0	0
Allakaket	0	0	-	-	32	4	0.0	0.0	12	4	0.0	0.0	5	5	20.0	0.0	0	0	-	-	49	13	100	0
Alatna	0	0	-	-	3	3	0.0	0.0	3	2	0.0	0.0	0	0	-	-	0	0	-	-	6	5	0	0
Bettles	0	0	-	-	22	17	0.0	0.0	0	0	-	-	0	0	-	-	0	0	-	-	22	17	0	0
District 4	2	1	0.0	0.0	385	119	0.1	0.1	235	90	0.7	0.6	44	41	17.8	0.0	5	4	44.6	0.0	671	255	1,235	291
Tanana	3	2	0.0	0.0	69	11	0.0	0.0	17	8	0.0	0.0	5	5	11.0	0.0	8	8	775.0	0.0	102	34	6,255	0
Rampart	1	0	-	-	6	5	0.0	0.0	6	5	0.0	0.0	2	1	0.0	-	1	0	-	-	16	11	0	0
Stevens Village	3	1	0.0	-	12	9	0.0	0.0	11	9	0.0	0.0	2	1	0.0	-	0	0	-	-	28	20	0	0
Birch Creek	0	0	-	-	7	4	0.0	0.0	1	1	0.0	0.0	0	0	-	-	0	0	-	-	8	5	0	0
Beaver	0	0	-	-	11	9	0.1	0.1	12	9	0.0	0.0	2	0	-	-	0	0	-	-	25	18	1	1
Fort Yukon *	4	0	-	-	108	26	5.8	5.0	39	8	0.0	0.0	13	9	300.0	166.4	1	1	200.0	0.0	165	44	3,523	1,064
Vanetia	4	1	0.0	-	28	19	5.5	1.8	5	5	25.0	0.0	2	1	0.0	-	1	1	400.0	0.0	40	27	680	99
Chalkyitsik	3	0	-	-	30	22	0.0	0.0	7	5	0.6	0.3	0	0	-	-	0	0	-	-	40	27	4	4
District 5	18	4	0.0	0.0	271	105	2.9	2.0	98	50	1.3	0.0	26	17	152.1	83.2	11	10	618.2	0.0	424	186	10,463	1,069
Survey Totals	35	13	0.0	0.0	1,161	352	0.8	0.5	1,048	376	1.8	0.3	152	134	32.7	14.2	22	19	319.2	0.0	2,418	894	13,608	1,304

\* The total number of households (N), the number of households contacted (n), standard error (SE), and includes 95 percent confidence interval, CI (95%).

\* Formally known as Sheldon or Sheldon's Point

\* Total includes a community harvest of 2,700 fall chum salmon

Appendix A.4. Estimated coho salmon subsistence harvest by residents of surveyed villages, by harvest stratum, with village and district totals, Yukon Area, 2002. \*

Community	Unknown				Does Not Harvest Salmon				Light Harvester				Medium Harvester				Heavy Harvester				Combined			
	N	n	Mean	SE	N	n	Mean	SE	N	n	Mean	SE	N	n	Mean	SE	N	n	Mean	SE	Total	n	Est	CI(95%)
Hooper Bay	2	0	-	-	92	24	0.1	0.1	93	24	0.9	0.4	13	12	2.2	0.6	1	1	0.0	0.0	201	61	125	86
Scammon Bay	0	0	-	-	30	8	0.0	0.0	50	15	2.4	1.1	2	2	0.0	0.0	0	0	-	-	82	25	123	110
Coastal District	2	0	0.0	0.0	122	32	0.1	0.1	143	39	1.5	0.4	15	14	1.9	0.5	1	1	0.0	0.0	283	86	248	140
Nunam Iqua <sup>b</sup>	1	1	0.0	0.0	10	5	0.0	0.0	19	15	2.9	0.6	2	2	0.0	0.0	0	0	-	-	32	23	56	23
Alakanuk	0	0	-	-	53	14	2.7	1.3	71	18	0.4	0.2	7	7	1.1	0.0	0	0	-	-	131	39	183	137
Emmonak	2	1	0.0	-	79	21	0.0	0.0	71	30	3.5	1.5	9	9	0.0	0.0	0	0	-	-	161	61	253	210
Kotlik	0	0	-	-	31	6	0.3	0.3	50	13	5.4	4.6	7	5	20.0	10.7	2	2	3.0	0.0	90	26	429	477
District 1	3	2	0.0	0.0	173	46	0.9	0.4	211	76	2.9	1.2	25	23	5.9	3.0	2	2	3.0	0.0	414	149	922	539
Mountain Village	1	1	0.0	0.0	49	10	0.0	0.0	89	16	0.0	0.0	10	10	8.5	0.0	0	0	-	-	149	37	85	0
Pitkas Point	0	0	-	-	5	3	0.0	0.0	18	15	2.6	1.0	2	1	0.0	-	0	0	-	-	25	19	47	35
St. Mary's	5	2	0.0	0.0	34	8	0.0	0.0	64	15	3.2	2.8	15	14	0.0	0.0	0	0	-	-	118	39	209	359
Pilot Station	0	0	-	-	47	10	0.0	0.0	51	23	0.0	0.0	4	3	1.3	0.7	0	0	-	-	102	36	5	5
Marshall	2	2	0.0	0.0	19	5	0.0	0.0	53	14	7.2	6.1	2	2	0.0	0.0	0	0	-	-	76	23	386	636
District 2	8	5	0.0	0.0	154	36	0.0	0.0	275	83	2.3	1.3	33	30	2.7	0.1	0	0	-	-	470	154	732	731
Russian Mission	0	0	-	-	24	5	0.0	0.0	37	9	3.1	1.9	2	2	0.0	0.0	0	0	-	-	63	16	115	144
Holy Cross	0	0	-	-	21	3	0.0	0.0	35	16	0.0	0.0	4	4	0.0	0.0	0	0	-	-	60	23	0	0
Shageluk	2	1	0.0	-	11	6	0.0	0.0	14	12	0.0	0.0	3	3	0.0	0.0	3	2	0.0	0.0	33	24	0	0
District 3	2	1	0.0	0.0	56	14	0.0	0.0	86	37	1.3	0.8	9	9	0.0	0.0	3	2	0.0	0.0	156	63	115	144
Anvik	0	0	-	-	17	13	0.0	0.0	13	12	0.0	0.0	3	3	0.0	0.0	0	0	-	-	33	28	0	0
Grayling	0	0	-	-	13	2	0.0	0.0	26	6	0.0	0.0	7	7	4.3	0.0	0	0	-	-	46	15	30	0
Kaitag	0	0	-	-	15	5	0.0	0.0	40	11	1.0	0.9	3	2	3.5	2.0	0	0	-	-	58	18	54	74
Nulato	0	0	-	-	50	9	1.6	1.0	37	11	0.0	0.0	6	5	0.0	0.0	1	1	0.0	0.0	94	26	78	102
Koyukuk	0	0	-	-	11	8	0.0	0.0	14	12	0.3	0.1	1	1	0.0	0.0	1	1	244.0	0.0	27	22	249	3
Galena	1	0	-	-	112	30	0.0	0.0	47	14	3.5	2.9	7	7	0.1	0.0	1	0	-	-	168	51	169	276
Ruby	0	0	-	-	47	9	0.0	0.0	12	4	0.0	0.0	6	6	0.0	0.0	2	2	34.5	0.0	67	21	69	0
Huslia	1	1	0.0	0.0	54	11	0.0	0.0	23	7	0.0	0.0	3	2	20.0	11.6	0	0	-	-	81	21	60	68
Hughes	0	0	-	-	9	8	0.0	0.0	8	7	1.2	0.4	3	3	30.0	0.0	0	0	-	-	20	18	100	7
Allakaket	0	0	-	-	32	4	0.0	0.0	12	4	2.5	2.0	5	5	5.2	0.0	0	0	-	-	49	13	56	48
Alatna	0	0	-	-	3	3	0.0	0.0	3	2	0.0	0.0	0	0	-	-	0	0	-	-	6	5	0	0
Bettles	0	0	-	-	22	17	0.0	0.0	0	0	-	-	0	0	-	-	0	0	-	-	22	17	0	0
District 4	2	1	0.0	0.0	385	119	0.2	0.1	235	90	1.1	0.6	44	41	4.9	0.8	5	4	62.6	0.0	671	255	865	314
Tanana	3	2	0.0	0.0	69	11	0.0	0.0	17	8	0.0	0.0	5	5	40.0	0.0	8	8	229.0	0.0	102	34	2,032	0
Rampart	1	0	-	-	6	5	0.0	0.0	6	5	0.0	0.0	2	1	0.0	-	1	0	-	-	16	11	0	0
Stevens Village	3	1	0.0	-	12	9	0.0	0.0	11	9	0.0	0.0	2	1	0.0	-	0	0	-	-	28	20	0	0
Birch Creek	0	0	-	-	7	4	0.0	0.0	1	1	0.0	0.0	0	0	-	-	0	0	-	-	8	5	0	0
Beaver	0	0	-	-	11	9	0.8	0.3	12	9	0.6	0.3	2	0	-	-	0	0	-	-	25	18	17	11
Fort Yukon	4	0	-	-	108	26	0.0	0.0	39	8	0.0	0.0	13	9	0.9	0.5	1	1	2.0	0.0	165	44	14	13
Venetie	4	1	0.0	-	28	19	0.4	0.2	5	5	0.0	0.0	2	1	0.0	-	1	1	0.0	0.0	40	27	12	9
Chalkyitsik	3	0	-	-	30	22	0.0	0.0	7	5	0.0	0.0	0	0	-	-	0	0	-	-	40	27	0	0
District 5	18	4	0.0	0.0	271	105	0.1	0.0	98	50	0.1	0.0	26	17	8.1	0.3	11	10	166.7	0.0	424	186	2,074	19
Survey Totals	35	13	0.0	0.0	1,161	352	0.2	0.1	1,048	375	1.8	0.4	152	134	4.6	0.6	22	19	97.9	0.0	2,418	893	4,956	982

\* The total number of households (N), the number of households contacted (n), standard error (SE), and includes 95 percent confidence interval, CI (95%).

<sup>b</sup> Formerly known as Sheldon or Sheldon's Point

Appendix A.5. Estimated chinook salmon subsistence use by residents of surveyed villages, by harvest stratum, with village and district totals, Yukon Area, 2002.<sup>a</sup>

Community	Unknown				Does Not Harvest Salmon				Light Harvester				Medium Harvester				Heavy Harvester				Combined			
																					Total		Est	CI(95%)
	N	n	Mean	SE	N	n	Mean	SE	N	n	Mean	SE	N	n	Mean	SE	N	n	Mean	SE	N	n	Total	(+/-)
Hooper Bay	2	0	-	-	92	23	0.7	0.2	93	24	1.9	0.3	13	12	2.4	0.2	1	1	5.0	0.0	201	60	275	82
Scammon Bay	0	0	-	-	30	8	0.3	0.2	50	15	15.9	3.0	2	2	16.0	0.0	0	0	-	-	82	25	836	302
Coastal District	2	0	0.0	0.0	122	31	0.6	0.2	143	39	6.6	1.1	15	14	4.2	0.1	1	1	5.0	0.0	283	85	1,111	313
Nunam Iqua <sup>b</sup>	1	1	0.0	0.0	10	5	0.6	0.3	19	16	22.4	2.5	2	2	7.5	0.0	0	0	-	-	32	24	448	96
Alakanuk	0	0	-	-	53	14	3.4	1.0	71	18	13.9	3.4	7	7	7.0	0.0	0	0	-	-	131	39	1,217	484
Emmonak	2	1	5.0	-	79	20	5.9	1.9	71	30	10.1	1.5	9	9	12.1	0.0	0	0	-	-	161	60	1,301	364
Kotlik	0	0	-	-	31	6	9.3	5.6	50	13	16.3	5.0	7	5	40.2	7.2	2	2	125.5	0.0	90	26	1,641	609
District 1	3	2	3.3	0.0	173	45	5.4	1.4	211	77	14.0	1.7	26	23	18.2	2.0	2	2	125.5	0.0	414	149	4,606	865
Mountain Village	1	1	0.0	0.0	49	8	5.8	3.2	89	15	17.2	4.9	10	10	18.9	0.0	0	0	-	-	149	34	2,004	917
Pitkas Point	0	0	-	-	5	3	2.0	1.3	18	14	22.0	2.2	2	1	88.0	-	0	0	-	-	25	18	583	80
St. Mary's	5	3	0.0	0.0	34	8	1.2	0.5	64	15	17.4	3.3	15	12	30.3	3.1	0	0	-	-	118	38	1,609	430
Pilot Station	0	0	-	-	47	8	9.4	2.5	51	22	41.3	11.5	4	3	28.7	9.8	0	0	-	-	102	33	2,663	1,182
Marshall	2	2	0.0	0.0	19	5	8.8	5.5	53	15	39.2	6.5	2	2	93.0	0.0	0	0	-	-	76	24	2,434	714
District 2	8	6	0.0	0.0	154	32	6.1	1.5	275	81	26.3	3.0	33	28	33.9	1.8	0	0	-	-	470	147	9,292	1,714
Russian Mission	0	0	-	-	24	5	22.8	8.9	37	9	31.2	8.3	2	1	37.0	-	0	0	-	-	63	15	1,776	737
Holy Cross	0	0	-	-	21	2	14.0	13.3	35	16	41.8	8.3	4	4	66.5	0.0	0	0	-	-	60	22	2,026	793
Shageluk	2	1	0.0	-	11	5	9.4	4.5	14	12	7.2	1.5	3	3	16.7	0.0	3	2	50.0	0.0	33	23	405	107
District 3	2	1	0.0	0.0	56	12	16.9	6.4	86	37	31.7	4.9	9	8	43.3	0.0	3	2	50.0	0.0	156	60	4,207	1,068
Anvik	0	0	-	-	17	14	6.2	1.4	13	13	22.5	0.0	3	3	119.0	0.0	0	0	-	-	33	30	756	45
Grayling	0	0	-	-	13	2	3.5	1.4	26	6	82.3	37.4	7	7	30.7	0.0	0	0	-	-	46	15	2,401	1,907
Kaitag	0	0	-	-	15	5	1.2	0.6	40	11	30.2	6.2	3	2	74.5	7.2	0	0	-	-	58	18	1,452	493
Nulato	0	0	-	-	50	8	8.6	3.0	37	11	33.3	7.0	6	4	38.0	9.5	1	1	0.0	0.0	94	24	1,894	600
Koyukuk	0	0	-	-	11	8	1.3	0.5	14	12	3.6	0.4	1	1	45.0	0.0	1	0	-	-	27	21	110	16
Galena	1	1	23.0	0.0	112	29	4.0	1.0	47	14	18.8	4.1	7	7	46.4	0.0	1	1	50.0	0.0	168	52	1,728	445
Ruby	0	0	-	-	47	9	3.9	2.4	12	4	14.0	6.7	6	6	48.5	0.0	2	1	350.0	-	67	20	1,342	274
Huslia	1	1	15.0	0.0	54	10	5.6	2.0	23	7	2.0	1.2	3	2	12.5	1.4	0	0	-	-	81	20	401	220
Hughes	0	0	-	-	9	8	0.0	0.0	8	7	5.2	0.5	3	3	12.3	0.0	0	0	-	-	20	18	79	8
Allakaket	0	0	-	-	32	4	1.0	0.9	12	4	13.5	10.7	5	5	5.2	0.0	0	0	-	-	49	13	220	260
Alatna	0	0	-	-	3	3	3.3	0.0	3	2	2.0	1.1	0	0	-	-	0	0	-	-	6	5	16	7
Bettles	0	0	-	-	22	17	0.3	0.1	0	0	-	-	0	0	-	-	0	0	-	-	22	17	6	3
District 4	2	2	19.0	0.0	385	117	4.1	0.7	235	91	26.6	4.5	44	40	40.6	1.4	5	3	150.0	0.0	671	253	10,406	2,152
Tanana	3	2	1.5	0.9	69	11	3.3	1.1	17	8	20.1	8.6	5	5	28.8	0.0	8	8	232.4	0.0	102	34	2,575	325
Rampart	1	0	-	-	6	5	1.0	0.3	6	5	96.8	34.6	2	1	40.0	-	1	0	-	-	16	11	679	408
Stevens Village	3	1	0.0	-	12	5	22.0	10.3	11	8	23.2	4.0	2	1	240.0	-	0	0	-	-	28	15	1,000	258
Birch Creek	0	0	-	-	7	4	2.5	0.8	1	1	50.0	0.0	0	0	-	-	0	0	-	-	8	5	68	11
Beaver	0	0	-	-	11	6	4.2	1.6	12	9	47.2	9.8	2	0	-	-	0	0	-	-	25	15	613	234
Fort Yukon	4	0	-	-	108	26	7.1	2.3	39	8	7.7	3.2	13	10	72.3	13.4	1	1	12.0	0.0	165	45	2,025	651
Venetie	4	1	1.0	-	28	19	0.4	0.1	5	5	1.4	0.0	2	1	40.0	-	1	1	0.0	0.0	40	27	103	5
Chalkyitsik	3	0	-	-	30	22	2.0	0.3	7	5	1.8	0.3	0	0	-	-	0	0	-	-	40	27	71	18
District 5	18	4	0.5	0.1	271	98	5.2	1.1	98	49	21.7	3.1	26	16	66.3	6.7	11	10	170.1	0.0	424	179	7,133	904
Survey Totals	35	15	1.6	0.1	1,161	335	5.1	0.5	1,048	374	21.2	1.4	152	131	36.4	1.3	22	18	137.6	0.0	2,418	873	36,755	3,227

<sup>a</sup> The total number of households (N), the number of households contacted (n), standard error (SE), and includes 95 percent confidence interval, CI (95%).<sup>b</sup> Formerly known as Sheldon or Sheldon's Point

Appendix A.6. Estimated summer chum salmon subsistence use by residents of surveyed villages, by harvest stratum, with village and district totals, Yukon Area, 2002. <sup>a</sup>

Community	Unknown				Does Not Harvest Salmon				Light Harvester				Medium Harvester				Heavy Harvester				Combined			
	N	n	Mean	SE	N	n	Mean	SE	N	n	Mean	SE	N	n	Mean	SE	N	n	Mean	SE	Total	n	Est	CI(95%)
Hooper Bay	2	0	-	-	92	24	46.2	11.4	93	24	52.9	8.1	13	13	66.1	0.0	1	1	80.0	0.0	201	62	10,108	2,529
Scammon Bay	0	0	-	-	30	8	6.6	3.5	50	15	86.9	16.4	2	2	125.0	0.0	0	0	-	-	82	25	4,795	1,621
Coastal District	2	0	0.0	0.0	122	32	36.4	8.6	143	39	64.6	7.8	15	15	73.9	0.0	1	1	80.0	0.0	283	87	14,903	3,004
Nunam Iqua <sup>b</sup>	1	1	0.0	0.0	10	5	1.4	0.5	19	15	96.3	10.3	2	2	76.0	0.0	0	0	-	-	32	23	1,996	386
Alakanuk	0	0	-	-	53	14	28.9	8.7	71	18	59.0	11.5	7	7	85.4	0.0	0	0	-	-	131	39	6,320	1,846
Emmonak	2	1	35.0	-	79	20	35.2	14.4	71	30	72.4	13.0	9	9	131.8	0.0	0	0	-	-	161	60	9,178	2,881
Kotlik	0	0	-	-	31	6	34.3	11.7	50	13	59.9	24.0	7	5	90.8	12.3	2	2	244.5	0.0	90	26	5,185	2,466
District 1	3	2	23.3	0.0	173	45	31.1	7.4	211	76	67.1	8.2	25	23	102.9	3.4	2	2	244.5	0.0	414	148	22,680	4,236
Mountain Village	1	1	0.0	0.0	49	8	28.5	17.7	89	15	47.7	7.9	10	10	133.2	0.0	0	0	-	-	149	34	6,977	2,193
Pitkas Point	0	0	-	-	5	3	1.0	0.6	18	14	34.5	3.0	2	1	7.0	-	0	0	-	-	25	18	641	108
St. Mary's	5	3	0.0	0.0	34	8	4.3	2.1	64	15	47.5	9.1	15	13	136.2	8.4	0	0	-	-	118	39	5,262	1,176
Pilot Station	0	0	-	-	47	8	42.8	17.4	51	22	72.6	23.5	4	3	64.7	16.2	0	0	-	-	102	33	5,975	2,856
Marshall	2	2	0.0	0.0	19	5	36.0	18.1	53	14	27.5	6.9	2	2	48.5	0.0	0	0	-	-	76	23	2,242	990
District 2	8	6	0.0	0.0	154	32	27.5	8.1	275	80	47.6	5.6	33	29	114.4	4.3	0	0	-	-	470	147	21,097	3,917
Russian Mission	0	0	-	-	24	5	5.0	3.0	37	9	6.4	2.2	2	1	19.0	-	0	0	-	-	63	15	396	215
Holy Cross	0	0	-	-	21	2	2.0	1.9	35	16	4.1	1.0	4	4	2.0	0.0	0	0	-	-	60	22	197	105
Shageluk	2	1	0.0	-	11	5	7.8	3.5	14	12	2.7	0.4	3	3	200.7	0.0	3	2	425.0	158.7	33	23	2,001	937
District 3	2	1	0.0	0.0	56	12	4.4	1.6	86	37	4.9	1.0	9	8	72.0	0.0	3	2	425.0	159.0	156	60	2,594	967
Anvik	0	0	-	-	17	14	0.6	0.2	13	13	65.0	0.0	3	3	56.7	0.0	0	0	-	-	33	30	1,025	6
Grayling	0	0	-	-	13	2	0.0	0.0	26	6	8.8	4.6	7	7	154.4	0.0	0	0	-	-	46	15	1,311	236
Kaltag	0	0	-	-	15	4	0.0	0.0	40	11	5.3	2.3	3	2	6.5	3.8	0	0	-	-	58	17	234	189
Nulato	0	0	-	-	50	8	2.5	1.7	37	11	3.9	1.8	6	4	2.8	0.9	1	1	0.0	0.0	94	24	286	217
Koyukuk	0	0	-	-	11	8	0.0	0.0	14	12	18.0	8.8	1	1	0.0	0.0	1	0	-	-	27	21	252	187
Galena	1	1	300.0	0.0	112	29	0.7	0.6	47	14	5.8	2.2	7	7	13.9	0.0	1	1	0.0	0.0	168	52	753	241
Ruby	0	0	-	-	47	9	0.0	0.0	12	4	0.0	0.0	6	6	25.2	0.0	2	1	350.0	-	67	20	851	0
Huslia	1	1	60.0	0.0	54	11	5.0	3.1	23	6	63.8	29.6	3	2	530.0	271.4	0	0	-	-	81	20	3,388	2,108
Hughes	0	0	-	-	9	8	0.0	0.0	8	7	65.0	12.4	3	3	189.7	0.0	0	0	-	-	20	18	1,089	195
Allakaket	0	0	-	-	32	4	19.3	10.1	12	4	0.0	0.0	5	5	884.8	0.0	0	0	-	-	48	13	5,040	631
Alatna	0	0	-	-	3	3	4.7	0.0	3	2	1.5	0.8	0	0	-	-	0	0	-	-	6	5	19	5
Bettles	0	0	-	-	22	17	0.0	0.0	0	0	-	-	0	0	-	-	0	0	-	-	22	17	0	0
District 4	2	2	180.0	0.0	385	117	2.9	1.0	235	90	16.8	3.0	44	40	184.5	18.5	5	3	140.0	0.0	671	252	14,248	2,261
Tanana	3	2	0.0	0.0	69	11	0.0	0.0	17	8	6.0	2.4	5	5	2.6	0.0	8	8	406.6	0.0	102	34	3,368	81
Rampart	1	0	-	-	6	5	0.0	0.0	6	5	0.0	0.0	2	1	0.0	-	1	0	-	-	16	11	0	0
Stevens Village	3	1	0.0	-	12	6	0.0	0.0	11	9	0.3	0.1	2	1	0.0	-	0	0	-	-	28	17	4	3
Birch Creek	0	0	-	-	7	4	0.0	0.0	1	1	0.0	0.0	0	0	-	-	0	0	-	-	8	5	0	0
Beaver	0	0	-	-	11	7	1.0	0.6	12	9	7.8	1.8	2	0	-	-	0	0	-	-	25	16	106	45
Fort Yukon	4	0	-	-	108	26	1.9	1.7	39	8	0.0	0.0	13	9	69.0	32.3	1	1	0.0	0.0	165	44	1,105	897
Venetie	4	1	0.0	-	28	19	0.0	0.0	5	5	2.6	0.0	2	1	0.0	-	1	1	0.0	0.0	40	27	13	0
Chalkyitsik	3	0	-	-	30	22	0.0	0.0	7	5	0.0	0.0	0	0	-	-	0	0	-	-	40	27	0	0
District 5	18	4	0.0	0.0	271	100	0.8	0.7	98	50	2.2	0.4	26	17	35.0	16.2	11	10	295.7	0.0	424	181	4,595	902
Survey Totals	35	15	12.3	0.0	1,161	338	13.5	1.8	1,048	372	39.2	2.5	152	132	112.7	6.1	22	18	263.5	21.6	2,418	875	80,117	7,012

<sup>a</sup> The total number of households (N), the number of households contacted (n), standard error (SE), and includes 95 percent confidence interval, CI (95%).<sup>b</sup> Formerly known as Sheldon or Sheldon's Point

Appendix A.7. Estimated fall chum salmon subsistence use by residents of surveyed villages, by harvest stratum, with village and district totals, Yukon Area, 2002. <sup>a</sup>

Community	Unknown				Does Not Harvest Salmon				Light Harvester				Medium Harvester				Heavy Harvester				Combined			
																					Total		Est. CI(95%)	
	N	n	Mean	SE	N	n	Mean	SE	N	n	Mean	SE	N	n	Mean	SE	N	n	Mean	SE	N	n	Total	(+/-)
Hooper Bay	2	0	-	-	92	24	0.7	0.3	93	24	0.2	0.1	13	12	0.1	0.0	1	1	0.0	0.0	201	61	86	65
Scammon Bay	0	0	-	-	30	8	0.3	0.2	50	15	4.8	2.1	2	2	0.0	0.0	0	0	-	-	82	25	248	213
Coastal District	2	0	0.0	0.0	122	32	0.6	0.2	143	39	1.8	0.7	15	14	0.1	0.0	1	1	0.0	0.0	283	86	333	222
Nunam Iqua *	1	1	0.0	0.0	10	5	0.0	0.0	19	16	13.5	3.5	2	2	0.0	0.0	0	0	-	-	32	24	258	132
Alakanuk	0	0	-	-	53	14	1.2	0.8	71	18	0.8	0.4	7	7	13.6	0.0	0	0	-	-	131	39	222	102
Emmonak	2	1	0.0	-	79	20	1.5	0.9	71	30	5.8	2.1	9	9	1.2	0.0	0	0	-	-	161	60	542	328
Kotlik	0	0	-	-	31	6	0.0	0.0	50	13	0.5	0.2	7	5	1.2	0.4	2	2	0.0	0.0	90	26	35	25
District 1	3	2	0.0	0.0	173	45	1.0	0.5	211	77	3.6	0.8	25	23	4.6	0.1	2	2	0.0	0.0	414	149	1,058	369
Mountain Village	1	1	0.0	0.0	49	8	0.0	0.0	89	15	0.7	0.3	10	10	1.4	0.0	0	0	-	-	149	34	79	57
Pitkas Point	0	0	-	-	5	3	0.0	0.0	18	15	0.9	0.3	2	1	0.0	-	0	0	-	-	25	19	17	12
St. Mary's	5	3	0.0	0.0	34	8	0.0	0.0	64	15	0.2	0.1	15	14	8.4	1.6	0	0	-	-	118	40	138	51
Pilot Station	0	0	-	-	47	8	0.9	0.8	51	22	1.4	0.7	4	3	5.3	1.5	0	0	-	-	102	33	137	103
Marshall	2	2	0.0	0.0	19	5	0.0	0.0	53	15	2.7	1.3	2	2	0.0	0.0	0	0	-	-	76	24	145	135
District 2	8	6	0.0	0.0	154	32	0.3	0.2	275	82	1.1	0.3	33	30	4.9	0.7	0	0	-	-	470	150	516	187
Russian Mission	0	0	-	-	24	5	0.0	0.0	37	9	4.4	3.8	2	2	0.0	0.0	0	0	-	-	63	16	164	280
Holy Cross	0	0	-	-	21	2	0.0	0.0	35	16	0.0	0.0	4	4	0.0	0.0	0	0	-	-	60	22	0	0
Shageluk	2	1	0.0	-	11	6	0.0	0.0	14	12	0.0	0.0	3	3	0.0	0.0	3	2	0.0	0.0	33	24	0	0
District 3	2	1	0.0	0.0	56	13	0.0	0.0	86	37	1.9	1.6	9	9	0.0	0.0	3	2	0.0	0.0	156	62	164	280
Anvik	0	0	-	-	17	14	0.1	0.0	13	13	0.0	0.0	3	3	133.3	0.0	0	0	-	-	33	30	401	1
Grayling	0	0	-	-	13	2	6.0	5.5	26	6	0.0	0.0	7	7	0.0	0.0	0	0	-	-	46	15	78	141
Kaitag	0	0	-	-	15	5	0.0	0.0	40	11	0.1	0.1	3	2	0.0	0.0	0	0	-	-	58	18	7	12
Nulato	0	0	-	-	50	8	0.0	0.0	37	11	0.0	0.0	6	4	0.0	0.0	1	1	0.0	0.0	94	24	0	0
Koyukuk	0	0	-	-	11	8	0.1	0.1	14	12	0.0	0.0	1	1	110.0	0.0	1	0	-	-	27	21	111	1
Galena	1	0	-	-	112	30	0.8	0.6	47	14	3.9	2.9	7	7	23.0	0.0	1	1	0.0	0.0	168	52	432	301
Ruby	0	0	-	-	47	9	0.0	0.0	12	4	0.0	0.0	6	6	0.3	0.0	2	1	0.0	-	67	20	2	0
Huslia	1	1	0.0	0.0	54	11	0.0	0.0	23	7	0.0	0.0	3	2	0.0	0.0	0	0	-	-	81	21	0	0
Hughes	0	0	-	-	9	8	1.3	0.4	8	7	0.0	0.0	3	3	0.0	0.0	0	0	-	-	20	18	11	7
Allakaket	0	0	-	-	32	4	0.0	0.0	12	4	0.0	0.0	5	5	20.0	0.0	0	0	-	-	49	13	100	0
Alatna	0	0	-	-	3	3	3.3	0.0	3	2	0.0	0.0	0	0	-	-	0	0	-	-	6	5	10	0
Bettles	0	0	-	-	22	17	0.1	0.0	0	0	-	-	0	0	-	-	0	0	-	-	22	17	1	1
District 4	2	1	0.0	0.0	385	119	0.5	0.3	235	91	0.8	0.6	44	40	17.6	0.0	5	3	0.0	0.0	671	254	1,154	333
Tanana	3	2	0.0	0.0	69	11	0.0	0.0	17	7	0.0	0.0	5	5	11.0	0.0	8	8	753.8	0.0	102	33	6,085	0
Rampart	1	0	-	-	6	5	0.0	0.0	6	5	0.0	0.0	2	1	0.0	-	1	0	-	-	16	11	0	0
Stevens Village	3	1	0.0	-	12	6	0.0	0.0	11	8	0.0	0.0	2	1	0.0	-	0	0	-	-	28	16	0	0
Birch Creek	0	0	-	-	7	4	0.0	0.0	1	1	0.0	0.0	0	0	-	-	0	0	-	-	8	5	0	0
Beaver	0	0	-	-	11	7	0.1	0.1	12	9	0.0	0.0	2	0	-	-	0	0	-	-	25	16	2	2
Fort Yukon	4	0	-	-	108	25	6.0	5.3	39	8	0.3	0.3	13	9	110.0	55.1	1	1	200.0	0.0	165	43	2,293	1,791
Venetie	4	1	0.0	-	28	19	5.5	1.8	5	5	25.0	0.0	2	1	0.0	-	1	1	400.0	0.0	40	27	680	99
Chalkyitsik	3	0	-	-	30	22	0.0	0.0	7	5	0.6	0.3	0	0	-	-	0	0	-	-	40	27	4	4
District 5	18	4	0.0	0.0	271	99	3.0	2.1	98	48	1.5	0.1	26	17	57.1	27.5	11	10	602.7	0.0	424	178	9,063	1,794
Survey Totals	35	14	0.0	0.0	1,161	340	1.1	0.5	1,048	374	1.8	0.2	152	133	16.7	4.7	22	16	301.4	0.0	2,418	879	12,288	1,905

<sup>a</sup> The total number of households (N), the number of households contacted (n), standard error (SE), and includes 95 percent confidence interval, CI (95%).<sup>b</sup> Formerly known as Sheldon or Sheldon's Point

Appendix A.8. Estimated coho salmon subsistence use by residents of surveyed villages, by harvest stratum, with village and district totals, Yukon Area, 2002. \*

Community	Unknown				Does Not Harvest Salmon				Light Harvester				Medium Harvester				Heavy Harvester				Combined			
	N	n	Mean	SE	N	n	Mean	SE	N	n	Mean	SE	N	n	Mean	SE	N	n	Mean	SE	Total		Est Total	CI(95%) (+/-)
																					N	n		
Hooper Bay	2	0	-	-	92	24	0.4	0.2	93	24	0.9	0.3	13	12	2.2	0.6	1	1	0.0	0.0	201	61	152	75
Scammon Bay	0	0	-	-	30	8	0.0	0.0	50	15	2.4	1.1	2	2	0.0	0.0	0	0	-	-	82	25	123	110
Coastal District	2	0	0.0	0.0	122	32	0.3	0.1	143	39	1.5	0.4	15	14	1.9	0.5	1	1	0.0	0.0	283	86	275	133
Nunam Iqua <sup>b</sup>	1	1	0.0	0.0	10	5	0.6	0.4	19	16	3.3	0.5	2	2	0.0	0.0	0	0	-	-	32	24	70	23
Alakanuk	0	0	-	-	53	14	2.7	1.3	71	18	0.4	0.2	7	7	1.1	0.0	0	0	-	-	131	39	183	137
Emmonak	2	1	0.0	-	79	20	0.9	0.5	71	30	3.5	1.3	9	9	1.1	0.0	0	0	-	-	161	60	334	202
Kotlik	0	0	-	-	31	6	0.3	0.3	50	13	5.2	4.4	7	5	20.0	10.7	2	2	0.5	0.0	90	26	413	458
District 1	3	2	0.0	0.0	173	45	1.3	0.5	211	77	2.9	1.1	25	23	6.3	3.0	2	2	0.5	0.0	414	149	1,001	520
Mountain Village	1	1	0.0	0.0	49	8	0.0	0.0	89	14	0.4	0.2	10	10	6.6	0.0	0	0	-	-	149	33	104	40
Pitkas Point	0	0	-	-	5	3	0.0	0.0	18	15	2.6	1.0	2	1	0.0	-	0	0	-	-	25	19	48	35
St. Mary's	5	3	0.0	0.0	34	8	0.0	0.0	64	15	0.2	0.2	15	14	0.0	0.0	0	0	-	-	118	40	17	29
Pilot Station	0	0	-	-	47	8	0.4	0.3	51	22	0.8	0.5	4	3	3.3	1.7	0	0	-	-	102	33	75	63
Marshall	2	2	0.0	0.0	19	5	0.0	0.0	53	15	6.8	5.6	2	2	0.0	0.0	0	0	-	-	76	24	360	586
District 2	8	6	0.0	0.0	154	32	0.1	0.1	275	81	1.8	1.1	33	30	2.4	0.2	0	0	-	-	470	149	605	592
Russian Mission	0	0	-	-	24	5	0.0	0.0	37	9	3.1	1.9	2	2	0.0	0.0	0	0	-	-	63	16	115	144
Holy Cross	0	0	-	-	21	2	0.0	0.0	35	16	0.0	0.0	4	4	0.0	0.0	0	0	-	-	60	22	0	0
Shageluk	2	1	0.0	-	11	6	0.0	0.0	14	12	0.0	0.0	3	3	0.0	0.0	3	2	0.0	0.0	33	24	0	0
District 3	2	1	0.0	0.0	56	13	0.0	0.0	86	37	1.3	0.8	9	9	0.0	0.0	3	2	0.0	0.0	156	62	115	144
Anvik	0	0	-	-	17	14	0.0	0.0	13	13	0.0	0.0	3	3	0.0	0.0	0	0	-	-	33	30	0	0
Grayling	0	0	-	-	13	2	0.0	0.0	26	6	0.0	0.0	7	7	4.3	0.0	0	0	-	-	46	15	30	0
Kaitag	0	0	-	-	15	5	0.0	0.0	40	11	2.9	1.0	3	2	6.5	0.3	0	0	-	-	58	18	136	86
Nulato	0	0	-	-	50	8	2.0	1.2	37	11	0.0	0.0	6	4	0.0	0.0	1	1	0.0	0.0	94	24	100	113
Koyukuk	0	0	-	-	11	8	0.0	0.0	14	12	0.3	0.1	1	1	0.0	0.0	1	0	-	-	27	21	5	3
Galena	1	0	-	-	112	30	0.6	0.4	47	14	3.2	2.6	7	7	0.0	0.0	1	1	0.0	0.0	168	52	215	265
Ruby	0	0	-	-	47	9	0.0	0.0	12	4	0.0	0.0	6	6	0.0	0.0	2	1	0.0	-	67	20	0	0
Huslia	1	1	0.0	0.0	54	11	0.0	0.0	23	7	0.0	0.0	3	2	20.0	11.6	0	0	-	-	81	21	60	68
Hughes	0	0	-	-	9	8	0.0	0.0	8	7	1.2	0.4	3	3	30.0	0.0	0	0	-	-	20	18	100	7
Allakaket	0	0	-	-	32	4	0.0	0.0	12	4	0.0	0.0	5	5	7.2	0.0	0	0	-	-	49	13	36	0
Alatna	0	0	-	-	3	3	0.0	0.0	3	2	0.0	0.0	0	0	-	-	0	0	-	-	6	5	0	0
Bettles	0	0	-	-	22	17	0.1	0.1	0	0	-	-	0	0	-	-	0	0	-	-	22	17	3	2
District 4	2	1	0.0	0.0	385	119	0.4	0.2	235	91	1.2	0.5	44	40	5.4	0.8	5	3	0.0	0.0	671	254	684	308
Tanana	3	2	0.0	0.0	69	11	1.8	1.7	17	8	0.0	0.0	5	5	40.0	0.0	8	8	229.0	0.0	102	34	2,157	225
Rampart	1	0	-	-	6	5	0.0	0.0	6	5	0.0	0.0	2	1	0.0	-	1	0	-	-	16	11	0	0
Stevens Village	3	1	0.0	-	12	6	0.0	0.0	11	9	0.0	0.0	2	1	0.0	-	0	0	-	-	28	17	0	0
Birch Creek	0	0	-	-	7	4	0.0	0.0	1	1	0.0	0.0	0	0	-	-	0	0	-	-	8	5	0	0
Beaver	0	0	-	-	11	7	1.0	0.6	12	9	0.6	0.3	2	0	-	-	0	0	-	-	25	16	19	15
Fort Yukon	4	0	-	-	108	25	0.1	0.1	39	8	0.0	0.0	13	9	0.9	0.5	1	1	2.0	0.0	165	43	22	19
Venetie	4	1	0.0	-	28	19	0.6	0.2	5	5	0.0	0.0	2	1	0.0	-	1	1	0.0	0.0	40	27	18	10
Chalkyitsik	3	0	-	-	30	22	0.0	0.0	7	5	0.0	0.0	0	0	-	-	0	0	-	-	40	27	0	0
District 5	18	4	0.0	0.0	271	99	0.6	0.4	98	50	0.1	0.0	26	17	8.1	0.3	11	10	166.7	0.0	424	180	2,215	227
Survey Totals	35	14	0.0	0.0	1,161	340	0.5	0.1	1,048	375	1.7	0.4	152	133	4.7	0.6	22	18	83.4	0.0	2,418	880	4,894	898

\* The total number of households (N), the number of households contacted (n), standard error (SE), and includes 95 percent confidence interval, CI (95%).

<sup>b</sup> Formerly known as Sheldon or Sheldon's Point

Appendix A.9. Estimated number of salmon given away by subsistence fishermen to another subsistence household and corresponding confidence intervals (CI) for surveyed villages, Yukon Area, 2002.

Community	Total Households	Households Contacted	Chinook Salmon		Summer Chum Salmon		Fall Chum Salmon		Coho Salmon		Total Salmon
			Estimated Total	CI(95%) (+/-)	Estimated Total	CI(95%) (+/-)	Estimated Total	CI(95%) (+/-)	Estimated Total	CI(95%) (+/-)	Estimated Total
Hooper Bay	201	62	12	14	637	513	31	52	35	37	714
Scammon Bay	82	25	0	0	0	0	8	13	0	0	8
<b>Coastal District</b>	<b>283</b>	<b>87</b>	<b>12</b>	<b>14</b>	<b>637</b>	<b>513</b>	<b>38</b>	<b>63</b>	<b>35</b>	<b>37</b>	<b>721</b>
Nunam Iqua *	32	24	18	8	283	163	0	0	8	9	310
Alakanuk	131	39	53	54	293	257	0	0	0	0	346
Emmonak	161	60	79	75	91	40	0	0	0	0	170
Kotlik	90	26	8	13	167	273	8	13	0	0	182
<b>District 1</b>	<b>414</b>	<b>149</b>	<b>158</b>	<b>94</b>	<b>833</b>	<b>411</b>	<b>8</b>	<b>13</b>	<b>8</b>	<b>9</b>	<b>1,008</b>
Mountain Village	149	34	474	709	1,117	1,062	6	11	0	0	1,597
Pitkas Point	25	19	37	24	84	58	1	1	1	1	123
St. Mary's	118	41	61	32	227	153	28	22	16	27	332
Pilot Station	102	35	303	236	183	279	13	13	0	0	500
Marshall	76	24	199	238	329	511	0	0	0	0	529
<b>District 2</b>	<b>470</b>	<b>153</b>	<b>1,074</b>	<b>786</b>	<b>1,941</b>	<b>1,222</b>	<b>49</b>	<b>28</b>	<b>17</b>	<b>27</b>	<b>3,081</b>
Russian Mission	63	16	32	44	24	42	0	0	0	0	56
Holy Cross	60	22	309	548	42	78	0	0	0	0	351
Shageluk	33	24	37	27	91	46	0	0	0	0	128
<b>District 3</b>	<b>156</b>	<b>62</b>	<b>378</b>	<b>551</b>	<b>157</b>	<b>100</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>536</b>
Anvik	33	30	39	11	8	2	1	1	0	0	49
Grayling	46	15	228	335	0	0	26	47	0	0	254
Kaitag	58	18	167	211	0	0	0	0	0	0	167
Nulato	94	26	199	225	0	0	0	0	13	22	211
Koyukuk	27	22	25	11	0	0	1	1	0	0	27
Galena	168	53	309	188	81	130	96	128	63	94	550
Ruby	67	20	130	125	0	0	2	0	0	0	132
Huslia	81	22	232	223	0	0	0	0	0	0	232
Hughes	20	18	13	6	0	0	11	7	0	0	24
Allakaket	49	13	35	59	255	220	0	0	0	0	290
Alatna	6	5	13	7	4	0	0	0	0	0	17
Bettles	22	17	6	3	0	0	1	1	3	2	10
<b>District 4</b>	<b>671</b>	<b>259</b>	<b>1,396</b>	<b>559</b>	<b>349</b>	<b>256</b>	<b>139</b>	<b>135</b>	<b>79</b>	<b>97</b>	<b>1,963</b>
Tanana	102	34	275	118	47	87	30	0	125	225	478
Rampart	16	11	32	24	0	0	0	0	0	0	32
Stevens Village	28	17	29	28	0	0	0	0	0	0	29
Birch Creek	8	5	11	11	0	0	0	0	0	0	11
Beaver	25	16	61	33	27	26	0	0	0	0	87
Fort Yukon	165	45	506	233	0	0	132	113	8	14	646
Venetie	40	27	26	5	0	0	0	0	4	4	30
Chalkyitsik	40	27	45	10	0	0	0	0	0	0	45
<b>District 5</b>	<b>424</b>	<b>182</b>	<b>985</b>	<b>266</b>	<b>73</b>	<b>72</b>	<b>162</b>	<b>113</b>	<b>138</b>	<b>228</b>	<b>1,358</b>
<b>Survey Totals</b>	<b>2,418</b>	<b>892</b>	<b>4,003</b>	<b>1,146</b>	<b>3,991</b>	<b>1,417</b>	<b>395</b>	<b>186</b>	<b>277</b>	<b>250</b>	<b>8,666</b>

\* Formerly known as Sheldon or Sheldon's Point

Appendix A.10: Estimated number of salmon given away by commercial fishermen to a subsistence household and corresponding confidence intervals (CI) for surveyed villages, Yukon Area, 2002.

Community	Total Households	Households Contacted	Chinook Salmon		Summer Chum Salmon		Fall Chum Salmon		Coho Salmon		Total Salmon
			Estimated Total	CI(95%) (+/-)	Estimated Total	CI(95%) (+/-)	Estimated Total	CI(95%) (+/-)	Estimated Total	CI(95%) (+/-)	Estimated Total
Hooper Bay	201	62	0	0	0	0					0
Scammon Bay	82	25	0	0	0	0					0
<b>Coastal District</b>	<b>283</b>	<b>87</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>					<b>0</b>
Nunam Iqua *	32	24	0	0	0	0					0
Alakanuk	131	39	0	0	15	25					15
Emmonak	161	60	20	33	198	335					217
Kotlik	90	28	0	0	0	0	There was no commercial fishing for fall chum or coho salmon in 2002.				0
<b>District 1</b>	<b>414</b>	<b>149</b>	<b>20</b>	<b>33</b>	<b>213</b>	<b>335</b>					<b>232</b>
Mountain Village	149	38	0	0	35	9					35
Pitkas Point	25	19	0	0	0	0					0
St. Mary's	118	41	0	0	0	0					0
Pilot Station	102	36	0	0	0	0					0
Marshall	76	24	0	0	190	320					190
<b>District 2</b>	<b>470</b>	<b>158</b>	<b>0</b>	<b>0</b>	<b>225</b>	<b>320</b>					<b>225</b>
Russian Mission	63	16	0	0	0	0					0
Holy Cross	60	22	0	0	0	0					0
Shageluk	33	24	0	0	0	0					0
<b>District 3</b>	<b>156</b>	<b>62</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>					<b>0</b>
Anvik	33	30	0	0	0	0					0
Grayling	46	15	0	0	0	0					0
Kaltag	58	18	0	0	0	0					0
Nulato	94	27	0	0	0	0					0
Koyukuk	27	22	0	0	0	0					0
Galena	168	53	0	0	0	0					0
Ruby	67	20	0	0	0	0					0
Huslia	81	22	0	0	0	0					0
Hughes	20	18	0	0	0	0					0
Allakaket	49	13	0	0	0	0					0
Alatna	6	5	0	0	0	0					0
Bettles	22	17	0	0	0	0					0
<b>District 4</b>	<b>671</b>	<b>260</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>					<b>0</b>
Tanana	102	34	0	0	0	0					0
Rampart	16	11	0	0	0	0					0
Stevens Village	28	19	0	0	0	0					0
Birch Creek	8	5	0	0	0	0					0
Beaver	25	16	0	0	0	0					0
Fort Yukon	165	46	0	0	0	0					0
Venetie	40	27	0	0	0	0					0
Chalkyitsik	40	27	0	0	0	0					0
<b>District 5</b>	<b>424</b>	<b>185</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>					<b>0</b>
<b>Survey Totals</b>	<b>2,418</b>	<b>901</b>	<b>20</b>	<b>33</b>	<b>438</b>	<b>463</b>					<b>457</b>

\* Formally known as Sheldon or Sheldon's Point

Appendix A.11. Estimated total number of salmon provided to villages for subsistence use by test fish programs, Yukon Area, 2002.

Yukon River Test Fishery Sites	Village where fish were distributed	Chinook	Summer Chum	Fall Chum	Coho
LYTF Drift Gillnet (summer)	Emmonak	165	1,638	-	-
	Kotlik	19	37	-	-
	Alakanuk	69	534	-	-
LYTF Set Gillnet (summer)	Emmonak	707	149	-	-
	Kotlik	193	0	-	-
	Alakanuk	368	50	-	-
LYTF Drift Gillnet (fall)	Emmonak	-	-	965	261
	Alakanuk	-	-	0	0
	Kotlik	-	-	85	113
Mountain Village Test Drift Gillnet	Mountain Village	-	-	175	155
Pilot Station Test Drift Gillnet	Pilot Station	545	2,174	680	225
Kaltag Test Drift Gillnet	Kaltag	-	-	314	158
Marshall Tag Deployment Drift Gillnet	Marshall	8	10	-	-
Russian Mission Tag Deployment Drift Gillnet	Russian Mission	18	0	-	-
<b>Subtotals by village</b>					
	Emmonak	872	1,787	965	261
	Kotlik	212	37	85	113
	Alakanuk	437	584	0	0
	Mountain Village	0	0	175	155
	Pilot Station	545	2,174	680	225
	Kaltag	0	0	314	158
	Marshall	8	10	0	0
	Russian Mission	18	0	0	0
<b>Grand Total</b>		<b>2,092</b>	<b>4,592</b>	<b>2,219</b>	<b>912</b>

Appendix B.1 Chinook salmon subsistence harvest totals by fishing district and community of residence, Yukon Area, 1991-2002. Harvests are estimated from post season survey, returned permits and test fish projects.

Community	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	1992-1996 Average	1997-2001 Average
Hooper Bay		503	230	157	1,500	1,127	613	13	173	114	2,150	282	703	613
Scammon Bay		948	1,199	668	585	1,238	526	378	938	449	732	840	928	605
<b>Coastal District Subtotal</b>		<b>1,451</b>	<b>1,429</b>	<b>825</b>	<b>2,085</b>	<b>2,365</b>	<b>1,139</b>	<b>391</b>	<b>1,111</b>	<b>563</b>	<b>2,882</b>	<b>1,122</b>	<b>1,631</b>	<b>1,217</b>
Nunam Iqua	445	388	561	606	459	450	970	527	855	684	550	393	493	717
Alakanuk	1,044	623	2,562	1,045	1,191	662	2,058	1,930	1,236	1,109	973	1,773	1,217	1,461
Emmonak	1,311	2,336	4,372	2,384	1,711	702	3,080	2,396	3,337	2,205	2,473	1,751	2,301	2,696
Kotlik	3,125	1,794	2,913	2,505	2,599	1,832	1,442	2,389	1,420	1,893	3,093	1,686	2,329	2,047
<b>District 1 Subtotal</b>	<b>5,925</b>	<b>5,141</b>	<b>10,408</b>	<b>6,540</b>	<b>5,960</b>	<b>3,646</b>	<b>7,550</b>	<b>7,242</b>	<b>6,848</b>	<b>5,891</b>	<b>7,089</b>	<b>5,603</b>	<b>6,339</b>	<b>6,924</b>
Mountain Village	1,171	1,249	3,217	1,511	1,542	1,315	2,081	2,533	2,162	1,715	1,864	1,523	1,767	2,071
Pitkas Point	652	851	1,001	469	559	762	793	817	632	753	651	566	728	729
St. Marys	1,836	1,753	2,042	2,722	2,031	1,766	2,592	2,679	2,150	1,810	3,815	2,045	2,063	2,609
Pilot Station	2,681	1,818	2,661	1,977	1,614	1,811	2,373	1,715	2,715	2,378	2,614	2,530	1,976	2,359
Marshall	1,277	1,403	2,592	2,277	3,291	2,126	1,511	1,711	2,780	3,279	4,498	2,290	2,338	2,756
<b>District 2 Subtotal</b>	<b>7,617</b>	<b>7,074</b>	<b>11,513</b>	<b>8,956</b>	<b>9,037</b>	<b>7,780</b>	<b>9,350</b>	<b>9,455</b>	<b>10,439</b>	<b>9,935</b>	<b>13,442</b>	<b>8,954</b>	<b>8,872</b>	<b>10,524</b>
Russian Mission	1,349	1,282	3,273	1,793	2,450	2,709	1,459	1,314	2,722	1,860	3,428	1,887	2,301	2,157
Holy Cross	1,649	3,491	3,191	4,040	2,808	3,953	3,472	2,648	4,581	1,249	2,711	1,813	3,497	2,932
Shageluk	189	218	128	291	161	121	1,380	552	412	805	222	439	184	674
<b>District 3 Subtotal</b>	<b>3,187</b>	<b>4,991</b>	<b>6,592</b>	<b>6,124</b>	<b>5,419</b>	<b>6,783</b>	<b>6,311</b>	<b>4,514</b>	<b>7,715</b>	<b>3,914</b>	<b>6,361</b>	<b>4,139</b>	<b>5,982</b>	<b>5,763</b>
<b>Lower Yukon River Total</b>	<b>16,729</b>	<b>17,206</b>	<b>28,513</b>	<b>21,620</b>	<b>20,416</b>	<b>18,209</b>	<b>23,211</b>	<b>21,211</b>	<b>25,002</b>	<b>19,740</b>	<b>26,892</b>	<b>18,696</b>	<b>21,193</b>	<b>23,211</b>
Anvik	619	389	663	424	450	768	951	1,025	776	205	608	708	539	713
Grayling	874	1,074	1,045	1,843	1,340	1,036	2,391	2,177	2,476	839	1,077	2,249	1,268	1,702
Kaltag	1,866	1,084	1,260	1,653	1,890	994	1,036	1,870	2,051	1,074	1,506	1,435	1,376	1,507
Nulato	2,500	1,596	1,660	1,735	1,533	1,461	1,576	4,147	1,799	1,083	2,127	1,773	1,597	2,146
Koyukuk	885	510	853	569	146	402	851	800	506	175	449	323	500	556
Galena	2,574	1,870	1,732	1,834	1,336	2,770	2,350	1,668	2,539	788	1,755	1,522	1,908	1,620
Ruby/Kokrine	971	498	3,263	1,539	1,435	557	2,260	3,891	777	1,577	2,033	954	1,458	2,108
<b>District 4 Yukon River Subtotal (Excluding the Koyukuk River)</b>	<b>10,289</b>	<b>7,021</b>	<b>10,476</b>	<b>9,617</b>	<b>8,130</b>	<b>7,988</b>	<b>11,415</b>	<b>15,578</b>	<b>10,924</b>	<b>5,741</b>	<b>9,555</b>	<b>8,964</b>	<b>8,646</b>	<b>10,643</b>
Huslia	198	751	232	239	932	67	57	23	90	424	377	222	444	194
Hughes	146	29	88	107 d	77	54	34	91	105	50	144	67	71	85
Allakaket	446	395	135	338 d	321	82	423	85	108	41	76	200	254	147
Alatna	5	42	4	26 d	10	2	38	4	10	8	0	3	17	12
Bettles	16	53	1	0	4	0	39	20	1	0	0	0	12	12
<b>Koyukuk River Subtotal</b>	<b>811</b>	<b>1,270</b>	<b>460</b>	<b>710</b>	<b>1,344</b>	<b>205</b>	<b>591</b>	<b>223</b>	<b>314</b>	<b>523</b>	<b>597</b>	<b>492</b>	<b>798</b>	<b>450</b>
<b>District 4 Subtotal</b>	<b>11,100</b>	<b>8,291</b>	<b>10,936</b>	<b>10,327</b>	<b>9,474</b>	<b>8,193</b>	<b>12,006</b>	<b>15,801</b>	<b>11,238</b>	<b>6,264</b>	<b>10,152</b>	<b>9,456</b>	<b>9,444</b>	<b>11,092</b>

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Community	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	1992-1996 Average	1997-2001 Average
Tanana	2,483	2,477	3,362	2,999	2,398	2,741	3,596	5,212	3,388	2,895	4,112	2,379	2,795	3,841
Rampart	988	2,802	1,956	1,354	1,461	1,751	2,203	885	2,018	847	1,857	852	1,885	1,562
Fairbanks g	982	1,394	1,514	1,920	1,447	1,166	955	1,231	851	1,342	1,125	1,767	1,488	1,101
Stevens Village	2,035	1,887	1,754	2,814	2,674	681	2,070	1,232	1,214	466	1,111	1,334	1,962	1,219
Birch Creek	196	44	0	119	93	0	373	48	24	72	0	67	51	103
Beaver	713	1,564	1,557	850	1,021	886	1,859	470	473	196	1,368	702	1,176	873
Fort Yukon	5,585	4,122	6,361	4,727	3,132	4,957	3,145	1,771	2,539	988	2,361	2,348	4,660	2,161
Circle	1,720	1,585	745	1,377	1,145	1,781	1,091	685	524	627	447	1,533	1,327	675
Central	151	167	210	240	171	131	146	170	91	26	84	58	184	103
Eagle	1,193	1,040	753	1,234	1,886	1,092	1,534	2,473	2,558	1,087	1,033	1,910	1,201	1,737
Other k	374	571	437	802	1,004	377	763	446	488	205	40	348	598	388
<b>District 5 Yukon River Subtotal (Excluding Chandalar/Black Rivers)</b>	<b>16,420</b>	<b>17,653</b>	<b>18,649</b>	<b>18,236</b>	<b>16,432</b>	<b>15,563</b>	<b>17,735</b>	<b>14,623</b>	<b>14,168</b>	<b>8,751</b>	<b>13,538</b>	<b>13,298</b>	<b>17,307</b>	<b>13,763</b>
Venatie	9	35	2,716	524	434	134	314	168	127	103	28	77	769	148
Chalkyitsik	0	3	0	0	0	30	0	11	35	0	0	26	7	9
<b>Chandalar/Black Rivers Subtotal</b>	<b>9</b>	<b>38</b>	<b>2,716</b>	<b>524</b>	<b>434</b>	<b>164</b>	<b>314</b>	<b>179</b>	<b>162</b>	<b>103</b>	<b>28</b>	<b>103</b>	<b>775</b>	<b>157</b>
<b>District 5 Subtotal</b>	<b>16,429</b>	<b>17,691</b>	<b>21,365</b>	<b>18,760</b>	<b>16,866</b>	<b>15,727</b>	<b>18,049</b>	<b>14,802</b>	<b>14,330</b>	<b>8,854</b>	<b>13,566</b>	<b>13,401</b>	<b>18,082</b>	<b>13,920</b>
Manley	401	551	238	480	335	134	242	209	136	58	534	336	348	236
Minto	134	142	468	316	535	523	1,208	275	317	0	197	19	397	399
Nenana	1,599	1,267	693	759	607	423	1,082	1,187	975	541	1,405	509	750	1,038
Fairbanks m	378	402	273	775	285	97	176	230	195	360	313	159	366	255
Other n	3	76	0	40	17	0	4	18	1	24	0	44	27	9
<b>District 6 Tanana River Subtotal</b>	<b>2,515</b>	<b>2,438</b>	<b>1,672</b>	<b>2,370</b>	<b>1,779</b>	<b>1,177</b>	<b>2,712</b>	<b>1,919</b>	<b>1,624</b>	<b>983</b>	<b>2,449</b>	<b>1,067</b>	<b>1,887</b>	<b>1,937</b>
<b>Upper Yukon River Total</b>	<b>30,044</b>	<b>28,420</b>	<b>33,973</b>	<b>31,457</b>	<b>28,119</b>	<b>25,097</b>	<b>32,767</b>	<b>32,522</b>	<b>27,192</b>	<b>16,101</b>	<b>26,167</b>	<b>23,924</b>	<b>29,413</b>	<b>28,950</b>
<b>Alaska, Yukon River Total p</b>	<b>46,773</b>	<b>45,626</b>	<b>62,486</b>	<b>53,077</b>	<b>48,535</b>	<b>43,306</b>	<b>55,978</b>	<b>53,733</b>	<b>62,194</b>	<b>35,841</b>	<b>53,059</b>	<b>42,620</b>	<b>50,606</b>	<b>50,161</b>
<b>Alaska, Yukon Area Total</b>	<b>46,773</b>	<b>47,077</b>	<b>63,915</b>	<b>53,902</b>	<b>50,620</b>	<b>45,671</b>	<b>57,117</b>	<b>54,124</b>	<b>53,305</b>	<b>36,404</b>	<b>55,941</b>	<b>43,742</b>	<b>52,237</b>	<b>51,378</b>

a Blanks indicate harvest information was not collected.

d Due to floods in 1994, Hughes, Allakaket, and Alatna were not surveyed. The 1994 chinook salmon harvest is estimated based on a five-year-average, 1989-1993.

g Harvests by Fairbanks subsistence permit holders who fished in District 5 near the Yukon River bridge crossing.

j Circle and Central harvests are combined in 1989.

k Other permit holders who fished in District 5 but did not reside in the communities listed.

m Harvests by Fairbanks subsistence permit holders who fished in the Tanana River.

n Other permit holders who fished in District 6 but did not reside in the communities listed.

p Does not include the Coastal District.

Appendix B.2 Summer chum salmon subsistence harvest totals by fishing district and community of residence, Yukon Area, 1991-2002. Harvests are estimated from post season survey, returned permits and test fish projects.

Community	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	1992-1996 Average	1997-2001 Average
Hooper Bay		12,900	16,106	10,556	13,374	15,870	12,310	261	10,148	9,301	12,593	9,780	13,761	8,922
Scammon Bay		3,795	4,692	4,347	3,986	6,365	3,401	1,101	3,315	3,876	1,323	5,016	4,637	2,603
<b>Coastal District Subtotal</b>		<b>16,695</b>	<b>20,798</b>	<b>14,903</b>	<b>17,360</b>	<b>22,235</b>	<b>15,711</b>	<b>1,362</b>	<b>13,461</b>	<b>13,177</b>	<b>13,916</b>	<b>14,796</b>	<b>16,398</b>	<b>11,525</b>
Nunam Iqua	2,226	1,415	2,362	1,941	2,979	2,634	2,603	1,872	1,343	3,309	1,942	1,897	2,266	2,214
Alakanuk	8,058	9,951	8,935	5,947	10,538	6,171	7,443	5,643	3,808	6,259	5,992	7,637	8,308	5,829
Emmonak	8,401	12,296	15,568	13,060	11,696	6,097	12,399	9,558	10,310	8,338	8,242	8,458	11,743	9,769
Kotlik	9,105	9,577	7,121	11,197	9,777	12,387	4,803	9,815	4,708	6,173	6,595	6,115	10,012	6,419
<b>District 1 Subtotal</b>	<b>27,790</b>	<b>33,239</b>	<b>33,988</b>	<b>32,145</b>	<b>34,990</b>	<b>27,289</b>	<b>27,248</b>	<b>26,888</b>	<b>20,169</b>	<b>24,079</b>	<b>22,771</b>	<b>24,107</b>	<b>32,330</b>	<b>24,231</b>
Mountain Village	4,743	7,864	10,505	3,938	10,554	9,285	11,310	9,596	10,059	7,074	8,484	6,657	8,429	9,305
Pitkas Point	1,452	759	1,481	1,103	1,665	1,619	747	1,302	849	1,728	862	639	1,325	1,098
St. Marys	7,832	7,796	5,925	10,128	5,950	6,736	8,874	9,047	6,752	8,094	10,026	7,284	7,307	8,559
Pilot Station	4,634	6,236	5,641	5,450	4,427	6,355	4,532	5,042	5,265	5,223	5,329	6,490	5,622	5,078
Marshall	2,042	2,076	1,745	2,288	4,594	4,431	1,508	1,293	1,212	3,212	1,602	2,484	3,027	1,765
<b>District 2 Subtotal</b>	<b>20,703</b>	<b>24,731</b>	<b>25,297</b>	<b>22,907</b>	<b>27,190</b>	<b>28,426</b>	<b>26,971</b>	<b>26,280</b>	<b>24,137</b>	<b>25,331</b>	<b>26,303</b>	<b>23,554</b>	<b>25,710</b>	<b>25,804</b>
Russian Mission	837	3,331	1,838	801	3,653	3,554	585	702	816	1,318	165	385	2,635	677
Holy Cross	1,028	1,001	1,517	1,479	948	1,700	487	269	264	569	460	155	1,329	410
Shageluk	3,680	5,267	4,183	6,212	7,542	6,114	9,244	5,501	4,868	1,800	684	1,956	5,864	4,419
<b>District 3 Subtotal</b>	<b>5,545</b>	<b>9,599</b>	<b>7,538</b>	<b>8,492</b>	<b>12,143</b>	<b>11,368</b>	<b>10,316</b>	<b>6,472</b>	<b>5,748</b>	<b>3,687</b>	<b>1,309</b>	<b>2,506</b>	<b>9,828</b>	<b>5,506</b>
<b>Lower Yukon River Total</b>	<b>54,038</b>	<b>67,669</b>	<b>66,821</b>	<b>63,544</b>	<b>74,323</b>	<b>87,083</b>	<b>64,535</b>	<b>59,640</b>	<b>50,054</b>	<b>53,097</b>	<b>50,383</b>	<b>50,167</b>	<b>67,868</b>	<b>55,542</b>
Anvik	876	1,142	1,735	907	9	185	6,306	2,139	848	425	94	1,089	796	1,962
Grayling	8,094	3,605	1,137	1,418	3,385	587	2,446	4,032	4,126	474	92	1,311	2,026	2,234
Kaltag	2,287	1,204	1,116	3,683	139	31	73	175	625	169	10	234	1,235	210
Nulato	159	889	15	975	228	1,003	115	3,518	1,945	377	208	269	822	1,233
Koyukuk	2,326	1,130	230	2,039	315	41	739	1,819	197	204	118	426	751	615
Galena	3,493	3,232	2,477	1,196	1,854	3,902	4,575	2,333	1,688	820	53	712	2,553	1,894
Ruby/Kokrine	1,352	2,420	1,459	4,586	4,445	2,016	3,286	2,251	1,697	1,233	1,025	1,406	2,985	1,898
<b>District 4 Yukon River Subtotal (Excluding the Koyukuk River)</b>	<b>18,587</b>	<b>13,622</b>	<b>8,169</b>	<b>14,806</b>	<b>10,475</b>	<b>7,765</b>	<b>17,540</b>	<b>16,267</b>	<b>11,126</b>	<b>3,702</b>	<b>1,600</b>	<b>5,447</b>	<b>10,967</b>	<b>10,047</b>
Huslia	7,857	13,670	8,343	6,014	4,885	2,372	840	449	1,192	745	833	3,178	7,057	812
Hughes	1,257	1,625	827	1,581 d	2,448	1,411	1,579	334	577	1,079	551	1,089	1,578	824
Atkasook	6,451	6,368	2,651	4,693 d	6,396	4,668	3,916	901	2,245	1,520	1,604	6,242	4,955	2,037
Alatna	962	490	52	365 d	140	209	145	13	99	0	0	15	251	51
Bettles	155	37	34	45	740	0	210	82	100	0	0	0	171	78
<b>Koyukuk River Subtotal</b>	<b>16,682</b>	<b>22,190</b>	<b>11,907</b>	<b>12,698</b>	<b>14,609</b>	<b>8,660</b>	<b>6,690</b>	<b>1,779</b>	<b>4,213</b>	<b>3,344</b>	<b>2,988</b>	<b>10,524</b>	<b>14,013</b>	<b>3,803</b>
<b>District 4 Subtotal</b>	<b>35,269</b>	<b>35,812</b>	<b>20,076</b>	<b>27,504</b>	<b>25,084</b>	<b>16,425</b>	<b>24,230</b>	<b>18,046</b>	<b>15,339</b>	<b>7,046</b>	<b>4,586</b>	<b>15,971</b>	<b>24,980</b>	<b>13,850</b>

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Community	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	1992-1996 Average	1997-2001 Average
Tanana	2,779	4,553	4,245	7,022	3,660	5,190	2,526	1,966	1,214	2,848	1,407	3,321	4,934	1,992
Rampart	20	4,494	1,489	559	1,168	1,188	738	19	60	47	0	14	1,780	173
Fairbanks g	1,068	708	465	360	722	2,958	424	57	346	275	165	295	1,042	253
Stevens Village	1,385	460	653	459	158	530	191	171	26	50	0	12	452	88
Beaver	2,355	12	134	655	36	572	2	15	91	7	328	77	282	89
Fort Yukon j	11,974	1,700	3,830	2,043	998	26	134	30	0	0	289	1,832	1,719	91
Circle	51	265	83	98	70	271	257	1	60	109	6	5	157	87
Central	0	91	2	8	2	53	25	1	0	1	0	0	31	5
Eagle	607	23	32	38	57	105	17	52	271	121	555	24	51	203
Other m	32	291	24	21	232	616	130	2	42	51	0	17	237	45
<b>District 5 Yukon River Subtotal (Excluding Chandalar/Black Rivers)</b>	<b>20,271</b>	<b>12,595</b>	<b>10,957</b>	<b>11,263</b>	<b>7,103</b>	<b>11,509</b>	<b>4,444</b>	<b>2,314</b>	<b>2,110</b>	<b>3,509</b>	<b>2,750</b>	<b>5,597</b>	<b>10,685</b>	<b>3,025</b>
Venetie	3,393	0	129	567	552	0	76	0	166	0	106	13	250	70
Chalkyitsik	500	17	0	0	0	0	0	0	0	132	0	0	3	26
<b>Chandalar/Black Rivers Subtotal</b>	<b>3,893</b>	<b>17</b>	<b>129</b>	<b>567</b>	<b>552</b>	<b>0</b>	<b>76</b>	<b>0</b>	<b>166</b>	<b>132</b>	<b>106</b>	<b>13</b>	<b>253</b>	<b>96</b>
<b>District 5 Subtotal</b>	<b>24,164</b>	<b>12,612</b>	<b>11,086</b>	<b>11,830</b>	<b>7,655</b>	<b>11,509</b>	<b>4,520</b>	<b>2,314</b>	<b>2,276</b>	<b>3,641</b>	<b>2,856</b>	<b>5,610</b>	<b>10,938</b>	<b>3,121</b>
Manley	1,716	850	1,310	1,405	1,657	1,219	576	211	272	240	338	93	1,288	327
Minto	748	625	367	509	1,320	1,421	1,056	148	173	3	19	10	848	280
Nenana	1,499	6,372	5,019	1,352	5,043	4,411	1,899	5,041	1,894	775	19	360	4,439	1,926
Fairbanks n	1,096	1,342	97	3,693	3,528	392	271	604	315	90	182	47	1,810	292
Other p	10	315	0	67	113	43	22	0	0	3	0	2	108	5
<b>District 6 Tanana River Subtotal</b>	<b>5,069</b>	<b>9,504</b>	<b>6,793</b>	<b>7,026</b>	<b>11,661</b>	<b>7,486</b>	<b>3,824</b>	<b>6,004</b>	<b>2,654</b>	<b>1,111</b>	<b>558</b>	<b>512</b>	<b>8,494</b>	<b>2,830</b>
<b>Upper Yukon River Total</b>	<b>64,502</b>	<b>57,928</b>	<b>37,955</b>	<b>46,360</b>	<b>44,400</b>	<b>35,420</b>	<b>32,574</b>	<b>26,364</b>	<b>20,269</b>	<b>11,798</b>	<b>8,002</b>	<b>22,093</b>	<b>44,413</b>	<b>19,801</b>
<b>Alaska, Yukon River Total r</b>	<b>118,540</b>	<b>125,497</b>	<b>104,776</b>	<b>109,904</b>	<b>118,723</b>	<b>102,503</b>	<b>97,109</b>	<b>86,004</b>	<b>70,323</b>	<b>64,895</b>	<b>58,385</b>	<b>72,260</b>	<b>112,281</b>	<b>75,343</b>
<b>Alaska, Yukon Area Total</b>	<b>118,540</b>	<b>142,192</b>	<b>125,574</b>	<b>124,807</b>	<b>136,083</b>	<b>124,738</b>	<b>112,820</b>	<b>87,366</b>	<b>83,784</b>	<b>78,072</b>	<b>72,301</b>	<b>87,056</b>	<b>130,679</b>	<b>86,869</b>

a Blanks indicate harvest information was not collected.

d Due to floods in 1994, Hughes, Allakaket, and Alatna were not surveyed. The 1994 summer chum salmon harvest is estimated based on a five-year-average, 1989-1993.

g Harvests by Fairbanks subsistence permit holders who fished in District 5 near the Yukon River bridge crossing.

j Includes Birch Creek except in 1990 and 1991. A harvest of one summer chum salmon was estimated in 1997.

m Other permit holders who fished in District 5 but did not reside in the communities listed.

n Harvests by Fairbanks subsistence permit holders who fished in the Tanana River.

p Other permit holders who fished in District 6 but did not reside in the communities listed.

r Does not include the Coastal District.

Appendix B.3 Fall chum salmon subsistence harvest totals by fishing district and community of residence, Yukon Area, 1991-2002. Harvests are estimated from post season survey, returned permits and test fish projects.

Community	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	1992-1996 Average	1997-2001 Average
Hooper Bay		127	113	284	207	392	0	0	0	78	364	44	225	88
Scammon Bay		79	7	63	147	0	0	34	204	11	195	240	59	89
<b>Coastal District Subtotal</b>		<b>206</b>	<b>120</b>	<b>347</b>	<b>354</b>	<b>392</b>	<b>0</b>	<b>34</b>	<b>204</b>	<b>89</b>	<b>559</b>	<b>284</b>	<b>284</b>	<b>177</b>
Nunam Iqua	84	490	158	25	256	21	337	266	115	105	176	284	190	200
Alakanuk	193	401	182	73	631	100	900	665	558	505	1,032	222	277	732
Emmonak	2,027	1,628	1,507	3,441	1,614	1,501	1,039	867	1,849	1,165	1,272	1,261	1,938	1,238
Kotlik	1,631	2,697	5,923	1,348	2,197	2,525	856	1,365	3,980	3,519	957	114	2,938	2,135
<b>District 1 Subtotal</b>	<b>3,935</b>	<b>5,216</b>	<b>7,770</b>	<b>4,887</b>	<b>4,698</b>	<b>4,147</b>	<b>3,132</b>	<b>3,163</b>	<b>6,502</b>	<b>5,294</b>	<b>3,437</b>	<b>1,881</b>	<b>5,344</b>	<b>4,306</b>
Mountain Village	1,473	1,052	1,113	797	1,347	1,366	2,698	2,031	1,968	313	470	478	1,135	1,496
Pitkas Point	610	77	268	294	99	603	178	233	53	5	34	16	268	101
St. Marys	1,592	2,356	440	1,062	542	658	310	416	722	255	227	103	1,012	386
Pilot Station	1,062	1,170	1,017	1,527	575	448	1,106	1,162	1,155	852	1,522	680	947	1,159
Marshall	891	2,727	256	471	754	2,212	388	640	696	0	1,003	341	1,284	545
<b>District 2 Subtotal</b>	<b>5,628</b>	<b>7,382</b>	<b>3,094</b>	<b>4,151</b>	<b>3,317</b>	<b>5,287</b>	<b>4,680</b>	<b>4,482</b>	<b>4,594</b>	<b>1,425</b>	<b>3,256</b>	<b>1,618</b>	<b>4,646</b>	<b>3,687</b>
Russian Mission	425	648	172	11	865	587	0	137	100	37	76	164	457	70
Holy Cross	190	845	1,066	665	681	1,814	420	1,095	239	523	624	0	1,014	580
Shageluk	0	865	211	186	126	305	367	329	76	38	0	0	339	162
<b>District 3 Subtotal</b>	<b>615</b>	<b>2,358</b>	<b>1,449</b>	<b>862</b>	<b>1,672</b>	<b>2,706</b>	<b>787</b>	<b>1,561</b>	<b>415</b>	<b>598</b>	<b>700</b>	<b>164</b>	<b>1,809</b>	<b>812</b>
<b>Lower Yukon River Total</b>	<b>10,178</b>	<b>14,956</b>	<b>12,313</b>	<b>9,900</b>	<b>9,687</b>	<b>12,140</b>	<b>8,599</b>	<b>9,206</b>	<b>11,511</b>	<b>7,317</b>	<b>7,393</b>	<b>3,663</b>	<b>11,799</b>	<b>8,805</b>
Anvik	452	894	420	155	269	457	514	388	126	175	29	401	439	246
Grayling	3,616	2,993	2,083	811	1,155	1,759	1,531	848	1,370	284	314	52	1,760	829
Kaltag	2,834	2,522	704	630	644	1,049	1,142	499	764	190	607	314	1,110	640
Nulato	1,837	1,910	571	1,109	1,137	2,299	697	367	2,338	0	151	0	1,405	711
Koyukuk	2,761	2,817	2,052	1,049	814	2,458	1,954	1,583	1,544	239	517	255	1,838	1,167
Galena	5,525	2,393	3,255	3,963	3,202	6,620	3,370	1,915	1,932	564	420	349	3,887	1,640
Ruby/Kokrine	2,856	4,499	1,085	5,553	4,695	561	2,195	2,427	907	64	581	78	3,279	1,235
<b>District 4 Yukon River Subtotal (Excluding the Koyukuk River)</b>	<b>19,681</b>	<b>18,028</b>	<b>10,170</b>	<b>13,270</b>	<b>11,916</b>	<b>15,203</b>	<b>11,403</b>	<b>7,827</b>	<b>8,981</b>	<b>1,516</b>	<b>2,619</b>	<b>1,449</b>	<b>13,717</b>	<b>6,469</b>
Huslia	411	1,286	258	55	1,035	298	10	0	89	35	683	0	586	163
Hughes	270	325	169	0 d	263	274	51	60	84	157	0	0	206	70
Allakaket	475	1,452	233	0 d	260	961	270	11	20	36	50	100	581	77
Alatna	38	127	2	0 d	0	0	0	0	0	15	0	0	26	3
Bettles	0	14	0	0	583	50	0	0	0	0	0	0	129	0
<b>Koyukuk River Subtotal</b>	<b>1,194</b>	<b>3,204</b>	<b>662</b>	<b>55</b>	<b>2,141</b>	<b>1,583</b>	<b>331</b>	<b>71</b>	<b>193</b>	<b>243</b>	<b>733</b>	<b>100</b>	<b>1,529</b>	<b>314</b>
<b>District 4 Subtotal</b>	<b>20,875</b>	<b>21,232</b>	<b>10,832</b>	<b>13,325</b>	<b>14,057</b>	<b>16,786</b>	<b>11,734</b>	<b>7,898</b>	<b>9,174</b>	<b>1,759</b>	<b>3,352</b>	<b>1,549</b>	<b>15,246</b>	<b>6,783</b>

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Community	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	1992-1996 Average	1997-2001 Average
Tanana	40,888	19,365	23,103	34,681	14,409	21,420	25,058	24,956	22,305	9,384	9,779	6,255	22,596	18,296
Rampart	5,801	5,701	3,272	1,007	1,403	896	646	100	4,324	0	183	0	2,456	1,051
Fairbanks g	2,022	2,491	930	2,870	2,184	2,727	491	96	681	8	0	0	2,240	255
Stevens Village	2,481	150	862	45	3,194	991	1,585	1,076	20	10	20	0	1,048	542
Beaver	7	361	692	2,069	1,231	9	243	409	16	0	21	1	872	138
Fl. Yukon j	7,467	2,284	2,380	6,827	9,196	8,144	6,119	3,035	9,702	355	2,209	3,523	5,766	4,284
Circle	6,340	8,279	349	4,581	5,102	5,308	3,707	37	2,722	0	2,588	74	4,324	1,811
Central	73	100	0	0	0	132	0	0	0	0	0	0	46	0
Eagle	7,985	5,630	2,070	8,263	13,115	14,916	14,488	543	11,292	32	2,714	339	8,799	5,814
Other m	100	0	1,750	0	830	505	421	50	65	1	0	100	617	107
<b>District 5 Yukon River Subtotal (Excluding Chandalari/Black Rivers)</b>	<b>73,144</b>	<b>42,361</b>	<b>35,408</b>	<b>60,343</b>	<b>50,664</b>	<b>55,048</b>	<b>52,758</b>	<b>30,302</b>	<b>51,127</b>	<b>9,790</b>	<b>17,514</b>	<b>10,292</b>	<b>48,765</b>	<b>32,298</b>
Venotie	758	3,066	7,881	4,302	6,085	7,195	1,584	658	2,011	130	3,286	680	5,706	1,530
Chalkyitsik	100	274	475	1,751	845	1,230	936	433	442	0	73	4	915	377
<b>Chandalari/Black Rivers Subtotal</b>	<b>858</b>	<b>3,340</b>	<b>8,356</b>	<b>6,053</b>	<b>6,930</b>	<b>8,425</b>	<b>2,500</b>	<b>1,091</b>	<b>2,453</b>	<b>130</b>	<b>3,359</b>	<b>684</b>	<b>6,621</b>	<b>1,907</b>
<b>District 5 Subtotal</b>	<b>74,002</b>	<b>45,701</b>	<b>43,764</b>	<b>66,396</b>	<b>57,594</b>	<b>63,473</b>	<b>55,258</b>	<b>31,393</b>	<b>53,580</b>	<b>9,920</b>	<b>20,873</b>	<b>10,976</b>	<b>55,386</b>	<b>34,205</b>
Marley	13,243	7,010	3,215	13,722	20,272	10,662	5,887	4,411	5,172	0	1,230	947	10,976	3,340
Minto	5,276	3,017	301	1,419	4,782	4,381	2,361	505	781	2	251	100	2,780	780
Nenana	17,932	13,253	5,929	11,201	15,500	14,207	3,799	6,781	5,619	8	999	1,070	12,018	3,441
Fairbanks n	1,671	1,394	56	5,006	6,384	5,736	4,031	960	1,630	0	201	229	3,715	1,364
Other p	2,347	1,039	352	2,249	2,230	1,481	3,472	1,713	2,269	300	855	856	1,470	1,722
<b>District 6 Tanana River Subtotal</b>	<b>40,469</b>	<b>25,713</b>	<b>9,853</b>	<b>33,597</b>	<b>49,168</b>	<b>36,467</b>	<b>19,550</b>	<b>14,370</b>	<b>15,471</b>	<b>310</b>	<b>3,636</b>	<b>3,202</b>	<b>30,960</b>	<b>10,647</b>
<b>Upper Yukon River Total</b>	<b>135,346</b>	<b>92,646</b>	<b>64,449</b>	<b>113,318</b>	<b>120,819</b>	<b>116,726</b>	<b>86,542</b>	<b>53,661</b>	<b>78,225</b>	<b>11,989</b>	<b>27,761</b>	<b>16,727</b>	<b>101,592</b>	<b>51,836</b>
<b>Alaska, Yukon River Total q</b>	<b>145,524</b>	<b>107,602</b>	<b>76,762</b>	<b>123,218</b>	<b>130,506</b>	<b>128,865</b>	<b>95,141</b>	<b>62,867</b>	<b>89,736</b>	<b>19,306</b>	<b>35,154</b>	<b>19,390</b>	<b>113,391</b>	<b>60,441</b>
<b>Alaska, Yukon Area Total</b>	<b>145,524</b>	<b>107,806</b>	<b>76,882</b>	<b>123,585</b>	<b>130,860</b>	<b>129,258</b>	<b>95,141</b>	<b>62,901</b>	<b>89,940</b>	<b>19,395</b>	<b>35,713</b>	<b>19,674</b>	<b>113,675</b>	<b>60,618</b>

a Blanks indicate harvest information was not collected.

d Due to floods in 1994, Hughes, Allakaket, and Alatna were not surveyed and the estimated harvest of fall chum salmon was zero.

g Harvests by Fairbanks subsistence permit holders who fished in District 5 near the Yukon River bridge crossing.

j Includes Birch Creek except in 1990 and 1991. A harvest of zero fall chum salmon has been estimated in all years surveyed.

m Other permit holders who fished in District 5 but did not reside in the communities listed.

n Harvests by Fairbanks subsistence permit holders who fished in the Tanana River.

p Other permits holders who fished in District 6 but did not reside in the communities listed.

q Does not include the Coastal District.

Appendix B.4 Coho salmon subsistence harvest totals by fishing district and community of residence, Yukon Area, 1991-2002. Harvests are estimated from post season survey, returned permits and test fish projects.

Community	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	1992-1996 Average	1997-2001 Average
Hooper Bay		28	0	1	48	92	0	145	68	218	439	125	34	174
Scammon Bay		31	40	80	104	0	0	204	0	4	63	123	51	54
<b>Coastal District Subtotal</b>		<b>59</b>	<b>40</b>	<b>81</b>	<b>152</b>	<b>92</b>	<b>0</b>	<b>349</b>	<b>68</b>	<b>222</b>	<b>502</b>	<b>248</b>	<b>85</b>	<b>228</b>
Nunam Iqua	35	441	78	52	419	138	51	229	51	5	32	56	226	74
Alakanuk	391	966	138	94	658	103	882	292	108	84	414	183	382	356
Emmonak	801	666	186	959	485	594	356	696	525	191	342	514	580	422
Kotlik	581	3,353	1,931	2,167	689	1,610	534	954	1,046	787	486	542	1,950	761
<b>District 1 Subtotal</b>	<b>1,808</b>	<b>5,426</b>	<b>2,343</b>	<b>3,272</b>	<b>2,251</b>	<b>2,445</b>	<b>1,823</b>	<b>2,171</b>	<b>1,730</b>	<b>1,067</b>	<b>1,274</b>	<b>1,295</b>	<b>3,147</b>	<b>1,613</b>
Mountain Village	888	1,971	447	968	921	276	1,089	954	665	376	423	361	917	701
Pitkas Point	347	641	349	364	554	691	427	305	302	139	112	47	520	257
St. Marys	1,270	2,130	102	614	154	292	329	290	536	117	610	209	658	376
Pilot Station	553	300	477	811	241	1,258	323	413	249	1,708	222	230	617	583
Marshall	259	1,545	320	1,124	272	958	256	335	1,041	11	73	386	644	343
<b>District 2 Subtotal</b>	<b>3,297</b>	<b>6,587</b>	<b>1,695</b>	<b>3,881</b>	<b>2,142</b>	<b>3,475</b>	<b>2,424</b>	<b>2,297</b>	<b>2,793</b>	<b>2,351</b>	<b>1,440</b>	<b>1,233</b>	<b>3,556</b>	<b>2,261</b>
Russian Mission	398	1,148	152	55	891	255	10	233	542	24	0	115	500	162
Holy Cross	944	105	88	171	0	0	20	100	62	70	0	0	73	50
Shageluk	0	296	39	137	0	189	736	67	6	0	0	0	132	162
<b>District 3 Subtotal</b>	<b>1,340</b>	<b>1,549</b>	<b>279</b>	<b>363</b>	<b>891</b>	<b>444</b>	<b>766</b>	<b>400</b>	<b>610</b>	<b>94</b>	<b>0</b>	<b>115</b>	<b>705</b>	<b>374</b>
<b>Lower Yukon River Total</b>	<b>6,445</b>	<b>13,562</b>	<b>4,317</b>	<b>7,516</b>	<b>5,284</b>	<b>6,364</b>	<b>5,013</b>	<b>4,868</b>	<b>5,133</b>	<b>3,512</b>	<b>2,714</b>	<b>2,643</b>	<b>7,409</b>	<b>4,248</b>
Anvik	347	202	115	95	10	44	24	20	282	0	13	0	93	68
Grayling	1,363	859	164	36	97	236	1,055	133	201	372	144	30	278	381
Kaltag	1,280	2,105	334	245	426	298	60	71	333	110	533	212	682	221
Nulato	75	435	37	27	25	149	444	34	170	60	258	78	135	193
Koyukuk	307	1,677	70	305	33	476	345	421	295	138	80	249	552	256
Galena	422	1,398	124	803	275	780	1,002	322	123	71	142	169	676	332
Ruby/Kokrines	410	1,299	308	1,957	607	376	474	1,459	620	173	871	69	909	719
<b>District 4 Yukon River Subtotal (Excluding the Koyukuk River)</b>	<b>4,184</b>	<b>8,175</b>	<b>1,152</b>	<b>3,468</b>	<b>1,473</b>	<b>2,359</b>	<b>3,404</b>	<b>2,460</b>	<b>2,024</b>	<b>924</b>	<b>2,041</b>	<b>807</b>	<b>3,325</b>	<b>2,171</b>
Huslia	150	233	9	47	307	18	50	128	15	132	83	60	123	82
Hughes	9	21	3	0 d	153	51	250	5	10	12	117	100	46	79
Allakaket	25	0	3	0 d	0	39	50	0	0	0	25	56	8	15
Alatna	83	0	0	0 d	0	0	0	0	0	0	0	0	0	0
Bettles	0	0	0	0	1	0	0	0	0	0	0	0	0	0
<b>Koyukuk River Subtotal</b>	<b>267</b>	<b>254</b>	<b>15</b>	<b>47</b>	<b>461</b>	<b>108</b>	<b>350</b>	<b>133</b>	<b>25</b>	<b>144</b>	<b>225</b>	<b>216</b>	<b>177</b>	<b>175</b>
<b>District 4 Subtotal</b>	<b>4,451</b>	<b>8,429</b>	<b>1,167</b>	<b>3,515</b>	<b>1,934</b>	<b>2,467</b>	<b>3,754</b>	<b>2,593</b>	<b>2,049</b>	<b>1,068</b>	<b>2,266</b>	<b>1,023</b>	<b>3,502</b>	<b>2,346</b>

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Community	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	1992-1998 Average	1997-2001 Average
Tanana	4,448	11,406	5,576	2,587	2,154	6,110	3,045	2,572	3,989	4,826	6,675	2,032	5,567	4,221
Rampart	58	75	38	99	0	5	34	20	126	0	0	0	43	36
Fairbanks f	8	34	0	25	18	42	26	11	0	2	11	0	24	10
Stevens Village	0	20	0	0	1	2	1	63	0	0	2	0	5	13
Beaver	1	396	135	10	20	7	0	0	0	0	0	17	114	0
Fort Yukon h	380	341	5	963	4	157	251 j	39	124	129	972	14	294	303
Circle	5	54	10	30	0	0	210	0	0	0	0	0	19	42
Central	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eagle	0	3	85	0	1	1	2	132	0	0	0	1	18	27
Other j	12	0	0	0	7	0	0	2	2	30	0	0	1	7
<b>District 5 Yukon River Subtotal (Excluding Chandalar/Black Rivers)</b>	<b>4,912</b>	<b>12,331</b>	<b>5,849</b>	<b>3,714</b>	<b>2,205</b>	<b>6,324</b>	<b>3,569</b>	<b>2,839</b>	<b>4,241</b>	<b>4,987</b>	<b>7,660</b>	<b>2,064</b>	<b>6,085</b>	<b>4,659</b>
Venette	12	45	135	4	0	264	7	0	0	0	10	12	90	3
Chalkyitsik	7	0	0	456	0	0	7	0	0	0	4	0	91	2
<b>Chandalar/Black River Subtotal</b>	<b>19</b>	<b>45</b>	<b>135</b>	<b>460</b>	<b>0</b>	<b>264</b>	<b>14</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>14</b>	<b>12</b>	<b>181</b>	<b>6</b>
<b>District 5 Subtotal</b>	<b>4,931</b>	<b>12,376</b>	<b>5,984</b>	<b>4,174</b>	<b>2,205</b>	<b>6,588</b>	<b>3,583</b>	<b>2,839</b>	<b>4,241</b>	<b>4,987</b>	<b>7,674</b>	<b>2,076</b>	<b>6,265</b>	<b>4,665</b>
Manley	6,361	4,725	1,535	10,410	7,395	2,462	3,236	2,362	3,244	2,180	2,637	1,617	5,305	2,732
Minto	526	614	300	2,616	338	1,223	364	31	0	3	0	250	1,016	80
Nenana	10,171	8,895	1,314	9,387	7,142	7,883	5,147	3,519	4,023	1,767	4,443	3,574	6,924	3,780
Fairbanks k	2,501	2,281	0	2,103	3,076	2,314	1,230	786	868	0	102	1,024	1,955	597
Other m	2,002	1,039	1,155	1,973	851	1,011	1,616	774	1,259	1,200	1,818	3,034	1,206	1,334
<b>District 6 Tanana River Subtotal</b>	<b>21,561</b>	<b>17,554</b>	<b>4,304</b>	<b>26,489</b>	<b>18,002</b>	<b>14,893</b>	<b>11,595</b>	<b>7,472</b>	<b>9,394</b>	<b>5,150</b>	<b>9,000</b>	<b>9,499</b>	<b>16,408</b>	<b>8,522</b>
<b>Upper Yukon Area Total</b>	<b>30,943</b>	<b>38,359</b>	<b>11,455</b>	<b>34,178</b>	<b>22,941</b>	<b>23,946</b>	<b>18,932</b>	<b>12,904</b>	<b>15,684</b>	<b>11,205</b>	<b>18,940</b>	<b>12,598</b>	<b>26,176</b>	<b>15,533</b>
<b>Alaska, Yukon River Total n</b>	<b>37,388</b>	<b>51,921</b>	<b>15,772</b>	<b>41,694</b>	<b>28,225</b>	<b>30,312</b>	<b>23,945</b>	<b>17,772</b>	<b>20,817</b>	<b>14,717</b>	<b>21,654</b>	<b>15,241</b>	<b>33,585</b>	<b>19,781</b>
<b>Alaska, Yukon Area Total</b>	<b>37,388</b>	<b>51,980</b>	<b>15,812</b>	<b>41,775</b>	<b>28,377</b>	<b>30,404</b>	<b>23,945</b>	<b>18,121</b>	<b>20,885</b>	<b>14,939</b>	<b>22,156</b>	<b>15,489</b>	<b>33,670</b>	<b>20,009</b>

a Blanks indicate harvest information was not collected.

d Due to floods in 1994, Hughes, Allakaket, and Alatna were not surveyed and the estimated harvest of coho salmon was zero.

f Harvests by Fairbanks subsistence permit holders who fished in District 5 near the Yukon River bridge crossing.

h Includes Birch Creek except in 1990 and 1991. A harvest of three coho salmon was estimated in 1997.

j Other permit holders who fished in District 5 but did not reside in the communities listed.

k Harvests by Fairbanks subsistence permit holders who fished in the Tanana River.

m Other permit holders who fished in District 6 but did not reside in the communities listed.

n Does not include the Coastal District.

## Subdistrict 6-C Personal Use Salmon Fishery

Year	Number of Permits Issued	Number of Permits Returned	Number Reporting Harvest	Reported Harvest			
				Chinook	Summer Chum	Fall Chum	Coho
1987	132 c	-	80 d			3,316	2,465
1988	208	162	120	317	1,182	2,074	1,125
1989	175	160	112	397	991	1,770	731
1990	152	144	102	442	918	1,353	1,120
1991 f							
1992 f							
1993	133	131	79	426	674	163	0
1994 f							
1995	139	138	91	399	780	863	417
1996	129	125	73	215	905	356	198
1997	112	109	61	313	391	284	350
1998	103	101	52	357	84	2	9
1999 g	103	103	67	331	382	261	147
2000	70	69	16	75	30	1	0
2001	54	51	24	122	146	10	34
2002	57	55	29	126	175	3	20
Five Year Average							
1997-2001	88	87	44	240	207	112	108

## Subdistrict 6-A Personal Use Salmon Fishery

Year	Number of Permits Issued	Number of Permits Returned	Number Reporting Harvest	Reported Harvest			
				Chinook	Summer Chum	Fall Chum	Coho
1987	no permits issued						
1988	1	1	0	0	0	0	0
1989	1	1	1	0	4	0	0
1990	1	1	0	0	0	0	0
1991	no permits issued						
1992	no permits issued						
1993	no permits issued						
1994	no permits issued						
1995	no permits issued						
1996	no permits issued						
1997 b	no permits issued						

## Subdistrict 6-B Personal Use Salmon Fishery

Year	Number of Permits Issued	Number of Permits Returned	Number Reporting Harvest	Reported Harvest			
				Chinook	Summer Chum	Fall Chum	Coho
1987	no permits issued						
1988	1	1	1	306	60	40	22
1989	1	1	1	56	220	0	0
1990	4	4	3	9	12	40	35
1991	no permits issued						
1992	no permits issued						
1993	no permits issued						
1994	no permits issued						
1995	no permits issued						
1996	no permits issued						
1997 b	no permits issued						

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Upper Tanana River Personal Use Salmon Fishery							
Year	Number of Permits Issued	Number of Permits Returned	Number Reporting Harvest	Reported Harvest			
				Chinook	Summer Chum	Fall Chum	Coho
1987	no permits issued						
1988	no permits issued						
1989	no permits issued						
1990	no permits issued						
1991	no permits issued						

b After 1997 the regulations did not provide for a personal use fishery in these areas.

c Includes 80 former subsistence fishermen who were reissued personal use permits to fish for fall chum salmon.

d Some fishing families used both subsistence and personal use permits.

f From July 1, 1990 through 1992, and in 1994, the regulations did not provide for a personal use fishery in this area.

g Does not include four whitefish and sucker fishery permit holders, two of which fished, that reported a total harvest of one fall chum and six coho salmon in 1999.

h After July 1, 1991 the regulations did not provide for a personal use salmon fishery in this area.

Appendix B.6. Subsistence salmon harvests taken under authority of a permit in portions of District 5, Yukon Area, 1974-2002. a

Yukon River "Bridge" Area Subsistence Salmon Fishery b							
Year	Number of Permits Issued	Number of Permits Returned	Number Reporting Harvest	Reported Harvest			
				Chinook	Summer Chum C	Fall Chum C	Coho
1974	29	-	-	591	-	1,857	1,271
1975	19	-	-	727	-	778	70
1976	28	-	18	531	-	974	-
1977	38	-	-	467	-	2,567	-
1978	57	-	-	1,333	-	9,735	-
1979	55	-	41	2,194	-	12,374	-
1980	70	-	67	1,350	-	6,488	36
1981	57	-	24	1,095	-	12,034	-
1982	64	-	44	1,935	-	11,328	20
1983	68	-	46	2,672	-	15,059	-
1984	67	-	54	4,676	-	27,869	399
1985	55	-	42	2,618	-	21,832	33
1986	76	-	58	3,827	-	18,690	759
1987	16	-	14	1,818	2,091	7,631	6
1988	24	21	18	1,747	2,097	3,183	606
1989	26	20	13	2,483	574	1,157	309
1990	26	25	16	2,033	3,493	1,109	455
1991	52	46	34	2,529	1,295	3,953	20
1992	45	42	33	2,241	975	2,491	34
1993	49	47	36	3,767	492	2,915	16
1994	50	49	36	3,073	384	2,911	25
1995	59	59	39	3,253	954	2,244	59
1996	47	45	31	1,157	3,475	2,727	42
1997	44	42	28	1,588	683	491	26
1998	48	47	31	1,685	103	156	15
1999	66	64	47	1,653	356	701	2
2000	56	52	33	1,607	324	8	32
2001	65	60	36	1,819	176	0	13
2002	60	58	44	2,275	320	100	0
Five Year Average							
1997-2001	56	53	35	1,670	328	271	18
Ten Year Average							
1992-2001	53	51	35	2,184	792	1,464	26

## Upper Yukon River Subsistence Salmon Fishery d

Year	Number of Permits Issued	Number of Permits Returned	Number Reporting Harvest	Reported Harvest			
				Chinook	Summer Chum c	Fall Chum c	Coho
1979	75	-	6	4,063	-	30,475	114
1980	48	-	39	3,649	-	18,477	6
1981	71	-	51	4,510	-	38,333	-
1982	60	-	61	3,833	-	15,432	-
1983	53	-	52	2,831	-	23,708	-
1984	58	-	54	2,543	-	21,675	17
1985	59	-	36	2,419	-	19,059	2
1986	40	-	52	4,148	-	20,701	43
1987	51	51	58 f	3,602	2,495	27,369	0
1988	58	57	50	2,783	2,134	9,078	101
1989	59	56	42	1,186	68	7,515	1
1990	81	75	54	3,746	1,629	14,992	206
1991	70	69	48	3,219	658	14,898	5
1992	85	79	54	2,984	409	12,009	57
1993	79	79	49	1,910	118	2,419	95
1994	79	76	51	3,093	145	12,844	30
1995	87	87	53	3,628	129	19,047	1
1996	86	84	51	3,458	528	20,861	1
1997	98	93	60	3,148	393	18,616	212
1998	101	95	54	3,562	55	630	132
1999	119	116	71	3,404	364	14,079	0
2000	121	118	47	1,806	233	33	0
2001	98	90	32	1,688	651	5,322	0
2002	94	79	39	3,639	29	413	1
Five Year Average							
1997-2001	107	102	53	2,722	339	7,736	69
Ten Year Average							
1992-2001	95	92	52	2,868	303	10,586	53

a Prior to 1988 the reported harvest was expanded for permits not returned. Beginning in 1988, reported harvest was not expanded.

b That portion of the Yukon River drainage from Hess Creek to Dall River.

c Summer chum and fall chum salmon undifferentiated from 1974-1986.

d That portion of the Yukon River drainage from Twenty-Two Mile Slough, above the village of Fort Yukon, to the United States/Canadian border.

f Some fishermen reporting harvests did not have permits.

Appendix B.7. Subsistence salmon harvests taken under authority of a permit, Tanana River drainage, 1973-2002. a

Subdistrict 6-A Subsistence Salmon Fishery							
Year	Number of Permits Issued	Number of Permits Returned	Number Reporting Harvest	Reported Harvest			
				Chinook	Summer Chum	Fall Chum	Coho
1988 b	28	24	18	845	1,389	9,165	3,455
1989 b, c	29	28	24 d	651	1,918	25,266	5,292
1990 c	42	36	26	1,369	2,250	27,957	8,408
1991	45	41	31	420	1,716	17,472	8,486
1992	38	35	26	508	450	5,999	5,028
1993 c	42	41	22	331	784	2,617	1,317
1994 f	37	37	30	576	3,793	18,076	12,449
1995	41	38	29	456	4,898	23,522	11,344
1996	31	29	23	209	1,338	18,931	5,959
1997	33	32	21	887	542	10,621	3,703
1998	31	31	19	512	519	4,726	1,526
1999	24	24	14	137	525	5,712	3,464
2000	24	24	12	80	240	0	2,441
2001	22	20	10	398	327	1,330	2,637
2002	18	17	15	373	99	1,076	1,883
Five Year Average 1997-2001	27	26	15	403	431	4,478	2,754

Subdistrict 6-B Subsistence Salmon Fishery							
Year	Number of Permits Issued	Number of Permits Returned	Number Reporting Harvest	Reported Harvest g			
				Chinook	Summer Chum	Fall Chum	Coho
1988	75	66	52	3,721	3,167	18,902	18,906
1989 h	60	51	37 d	455	363	18,506	8,453
1990 h	70	58	38	1,234	1,966	16,332	9,155
1991 h	87	78	51	1,796	2,373	21,629	11,971
1992 h	98	89	57	1,587	7,820	18,782	11,409
1993	99	89	38	1,341	5,976	7,166	2,987
1994	102	94	49	1,337	2,035	13,726	12,480
1995	98	98	59	1,322	6,712	25,364	7,458
1996	105	96	59	968	6,138	17,439	8,934
1997	103	95	55	1,825	3,282	8,729	7,892
1998	94	84	46	1,407	5,485	9,573	5,937
1999	83	79	47	1,487	2,129	9,757	5,930
2000	81	79	33	903	869	210	2,709
2001	87	77	42	1,511	74	1,983	5,646
2002	62	59	24	525	411	1,836	7,253
Five Year Average 1997-2001	90	83	45	1,427	2,368	6,050	5,623

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## Upper Tanana River Drainage Subsistence Salmon Fishery

Year	Number of Permits Issued	Number of Permits Returned	Number Reporting Harvest	Reported Harvest			Coho
				Chinook	Summer Chum	Fall Chum	
1988	0	0	0	0	0	0	0
1989	2	2	2	5	0	39	0
1990	1	1	0	0	0	0	0
1991	8	7	6	0	0	288	14
1992	11	11	4	0	0	36	1
1993	10	10	8	0	0	5	0
1994	7	7	3	0	0	202	15
1995	50	46	12	0	0	88	0
1996	42	39	15	0	10	97	0
1997	61	58	26	0	0	200	0
1998	46	46	17	0	0	71	9
1999	29	29	13	0	0	2	0
2000	41	36	16	0	2	100	0
2001	57	47	21	0	0	2	1
2002	32	30	16	0	0	25	0
Five Year Average 1997-2001							
	47	43	19	0	0	75	2

## Subdistrict 6-C Subsistence Salmon Fishery

Year	Number of Permits Issued	Number of Permits Returned	Number Reporting Harvest	Reported Harvest			Coho j
				Chinook	Summer Chum	Fall Chum	
1973	22	-	4	26	771	888	-
1974	70	-	-	38	1,373	1,580	-
1975	36	-	-	32	751	864	-
1976	110	-	-	31	1,314	1,512	-
1977	89	-	33	81	118	607	-
1978	160	-	126	126	2,729	1,188	-
1979	246	-	199	264	2,384	4,459	-
1980	315	-	254	282	3,729	4,059	-
1981	346	-	228	440	3,239	5,770	-
1982	330	-	209	451	2,708	4,521	-
1983	259	-	147	475	2,276	3,830	-
1984	308	-	212	321	3,177	5,134	-
1985	291	-	155	326	2,646	3,937	-
1986	323	-	211	637	4,031	4,437	-
1987 k	217	-	123	531	2,739	0	0
1988	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0
1990 m	19	18	6	15	69	279	50
1991	149	142	98	299	980	1,080	1,089
1992	149	146	90	343	1,234	896	1,116
1993 n	0	0	0	0	0	0	0
1994 p, r	145	142	107	457	1,198	1,600	1,545

a Prior to 1988, salmon harvests were expanded for permits not returned. Beginning in 1988, the reported harvests were not expanded. Dashes in the table indicate the information is not available.

b Many Subdistrict 6-A fishermen did not obtain a permit in 1988 and 1989.

c Includes salmon given away as part of the department's test fishing project in Manley.

d Includes harvests reported by fishermen who did not have permits.

f Beginning in 1994, a separate Kantishna River drainage permit was required. The Subdistrict 6-A harvest totals include those from the Kantishna River drainage.

g Includes small numbers of salmon harvested and reported on the Tolovana River drainage (Subdistrict 6-B) subsistence pike permit, established in 1993.

h Includes salmon given away as part of the department's test fish project in Nenana.

j Prior to 1988 fall chum and coho salmon were not reported as separate species.

k Personal use fishery established for nonrural residents beginning in July of 1987.

m Some fishermen had both personal use and subsistence permits. The McDowell Decision became effective July 1990 (midway through the season), and stated that all Alaskan residents were eligible subsistence participants.

n Personal use fishery was established for those fishing for salmon in the Fairbanks Nonsubsistence Area, which includes Subdistrict 6-C.

p No personal use permits were issued in 1994 for this area.

r After 1994 subsistence regulations were repealed within the Fairbanks Nonsubsistence Area, which includes Subdistrict 6-C.

Appendix B.8. Estimated number of salmon distributed from test fish projects, Yukon Area, 1992 to 2002. a

Year	Set Gillnet Test Fish	Drift Gillnet Test Fish Projects							Test Fish Wheel Projects b					Total
	Lower Yukon	Lower Yukon	Mountain Village	Pilot Station	Marshall	Marshall c	Russian Mission	Kaltag	Galena	Manley	Nenana	Tanana	Fort Yukon	
1992	1,715	-	-	-	-	-	-	-	-	0	113	-	-	1,828
1993	1,584	-	-	471	-	-	-	-	-	0	0	0	-	2,055
1994	1,985	-	-	334	-	-	-	-	-	0	0	0	-	2,319
1995	1,715	-	1	166	-	-	-	-	2	1	0	0	0	1,885
1996	1,355	-	0	0	-	-	-	-	-	0	0	0	0	1,355
1997	1,825	-	2	330	-	-	-	-	-	0	0	0	0	2,157
1998	1,035	-	8	435	-	-	-	-	-	0	0	0	0	1,478
1999	1,656	-	1	359	773	-	-	1	-	0	0	0	0	2,790
2000	1,344	-	0	450	1,024	11	23	0	-	-	0	0	0	2,852
2001	1,379	535	-	561	-	27	11	-	-	-	0	-	-	2,513
2002	1,268	253	-	545	-	8	18	-	-	-	0	0	-	2,092
Five Year Average 1997 to 2001														
	1,448	535	3	427	899	19	17	1	-	0	0	0	-	2,358
1992	3,989	-	-	-	-	-	-	-	-	0	112	-	-	4,101
1993	4,111	-	-	2,098	-	-	-	-	-	33	0	0	-	6,242
1994	7,060	-	-	2,998	-	-	-	-	-	0	0	0	-	10,058
1995	6,382	-	0	1,875	-	-	-	-	57	50	0	0	0	8,364
1996	7,052	-	0	276	-	-	-	-	-	0	0	0	0	7,328
1997	4,539	-	0	2,420	-	-	-	-	-	0	0	0	0	6,959
1998	2,290	-	0	2,209	-	-	-	-	-	0	0	147	-	4,646
1999	2,717	-	0	1,636	181	-	-	0	-	0	0	0	-	4,534
2000	2,499	-	0	2,141	335	0	0	0	-	-	0	0	-	4,980
2001	211	1,787	-	1,696	-	1	2	-	-	-	0	-	-	3,697
2002	199	2,209	-	2,174	-	10	-	-	-	-	0	0	-	4,592
Five Year Average 1997 to 2001														
	2,451	1,787	0	2,020	258	1	1	0	-	0	0	37	-	4,963
1992	2,462	-	-	-	-	-	-	-	-	0	110	-	-	2,572
1993	3,692	-	-	652	-	-	-	-	-	65	0	0	-	4,409
1994	2,566	-	-	1,349	-	-	-	-	-	0	7	1,895	-	5,817
1995	2,408	-	523	541	-	-	-	-	199	194	0	1,876	1,570	7,311
1996	1,421	-	319	150	-	-	-	-	-	0	0	0	1,081	2,971
1997	1,466	-	962	997	-	-	-	-	-	0	0	0	-	3,425
1998	2,000	-	664	1,110	-	-	-	-	-	0	0	0	-	3,774
1999	4,061	-	1,008	968	0	-	-	483	-	0	0	0	-	6,520
2000	2,821	-	269	834	0	0	0	190	-	-	0	0	-	4,214
2001	-	1,694	339	1,492	-	-	-	494	-	-	0	0	-	4,019
2002	-	1,050	175	680	-	-	-	314	-	-	0	0	-	2,219
Five Year Average 1997 to 2001														
	2,612	1,694	648	1,080	0	0	0	389	-	0	0	0	-	4,390
1992	2,557	-	-	-	-	-	-	-	-	0	0	-	-	2,557
1993	1,210	-	-	222	-	-	-	-	-	0	0	0	-	1,432
1994	2,033	-	-	786	-	-	-	-	-	0	0	266	-	3,085
1995	579	-	559	205	-	-	-	-	0	0	0	164	0	1,507
1996	755	-	228	25	-	-	-	-	-	0	0	0	0	1,008
1997	593	-	309	283	-	-	-	-	-	0	0	0	-	1,185
1998	792	-	567	364	-	-	-	-	-	0	0	0	-	1,723
1999	649	-	2	180	0	-	-	70	-	0	0	0	-	901
2000	949	-	313	1,705	0	0	0	110	-	-	0	0	-	3,399
2001	-	492	302	180	-	-	-	251	-	-	0	0	-	1,225
2002	-	374	155	225	-	-	-	158	-	-	0	0	-	912
Five Year Average 1997 to 2001														
	746	492	299	542	0	0	0	144	-	0	0	0	-	1,687

a Dashes indicate test fish project was not in operation.

b Does not include salmon that were accounted for by using the survey or permit methods.

c Chinook salmon radio telemetry project.

Appendix B.9. Estimated pink salmon subsistence harvest by residents of surveyed villages, with village and district totals, Yukon Area, 1994 to 2002.

Community	1994 <sup>a</sup>	1995	1996	1997	1998	1999	2000	2001	2002	Estimated Total		
										Even Years Average	Odd Years Average	1994 to 2001 Average
Hooper Bay	734	326	3,212	265	1,941	99	902	32	5,475	2,453	181	938
Scammon Bay	1,319	559	305	0	1,791	527	96	362	417	786	362	620
Coastal District	2,053	885	3,517	265	3,732	626	998	394	5,892	3,238	542	1,559
Nunam Iqua	1,368	1	262	1	299	0	0	0	10	392	1	244
Alakanuk	54	124	35	33	238	0	38	0	130	99	39	65
Emmonak	1,451	5	46	35	145	17	0	9	39	336	16	213
Kotlik	1,340	2	100	0	907	15	263	0	849	892	4	328
District 1	4,233	132	443	69	1,590	32	301	9	1,028	1,519	60	851
Mountain Village	806	35	611	10	753	0	61	0	745	595	11	285
Pitkas Point	163	4	280	101	330	12	114	0	35	184	29	126
St. Mary's	850	0	42	4	467	1	54	0	7	284	1	177
Pilot Station	32	0	0	0	0	8	6	0	22	12	2	6
Marshall	880	6	0	0	0	0	0	0	473	271	2	111
District 2	2,731	45	933	115	1,550	21	235	0	1,282	1,346	45	704
Russian Mission	200	0	0	0	211	0	8	0	0	84	0	52
Holy Cross	89	0	140	0	150	0	20	0	0	80	0	60
Shageluk	0	0	40	0	1,256	0	0	0	0	259	0	162
District 3	289	0	180	0	1,617	0	28	0	0	423	0	264
Anvik	475	0	0	0	50	0	30	0	0	111	0	69
Grayling	451	0	4	0	649	1	0	0	30	227	0	138
Kaltag	0	0	0	11	1	1	0	0	0	0	3	2
Nulato	4	0	0	0	0	0	0	0	50	11	0	1
Koyukuk	4	0	0	23	0	0	0	0	4	2	6	3
Galena	61	0	52	0	0	0	0	0	50	33	0	14
Ruby	0	0	3	0	0	0	1	0	87	16	0	1
Huslia	0	0	0	0	0	0	0	0	0	0	0	0
Hughes	0	0	0	0	0	0	0	0	0	0	0	0
Allakaket	0	0	0	0	0	0	0	0	0	0	0	0
Alatna	0	0	0	0	0	0	0	0	0	0	0	0
Bettles	0	0	0	0	0	0	0	0	0	0	0	0
District 4	995	0	59	34	700	2	31	0	221	401	9	228
Tanana	0	0	0	0	0	0	0	0	0	0	0	0
Rampart	0	0	0	0	0	0	0	0	0	0	0	0
Stevens Village	0	0	0	0	0	0	0	0	0	0	0	0
Birch Creek	0	0	0	0	0	0	0	0	0	0	0	0
Beaver	0	0	0	0	0	0	0	0	0	0	0	0
Fort Yukon	0	0	0	0	0	0	0	0	0	0	0	0
Venetie	0	0	0	0	0	0	0	0	0	0	0	0
Chalkyitsik	0	0	0	0	0	0	0	0	0	0	0	0
District 5	0	0	0	0	0	0	0	0	0	0	0	0
Survey Totals	10,301	1,062	5,132	483	9,189	681	1,593	403	8,423	5,928	557	3,605
CI (95%) <sup>b</sup>	2,496	635	2,204	290	2,511	621	559	416	4,091	-	-	-

<sup>a</sup> Due to floods in 1994, Hughes, Allakaket, and Alatna were not surveyed and the estimated harvest of pink salmon was zero.

<sup>b</sup> Includes annual 95 percent confidence interval, CI (95%).

Appendix B.10. Households with dogs, number of dogs, and salmon fed to dogs, as estimated in surveyed villages or reported in permit areas, Yukon Area, 1990-2002. a

Districts Survey or Permit	Number of Households with Dogs	Number of Dogs	Summer Chum Salmon Fed to Dogs	Fall Chum Salmon Fed to Dogs	Coho Salmon Fed to Dogs	Total Salmon Fed to Dogs
<b>1990</b>						
Coastal District Survey	-	-	-	-	-	-
District 1 Survey	-	455	2,859	372	0	3,231
District 2 Survey	-	775	3,278	415	3,665	7,358
District 3 Survey	-	272	8,248	120	166	8,534
District 4 Survey	-	1,385	91,256	6,911	2,511	100,678
District 5 Survey	-	1,286	5,697	72,424	9,118	87,239
District 5 Permit b	-	-	-	-	-	-
District 6 Permit	-	-	-	-	-	-
<b>Totals</b>	<b>0</b>	<b>4,173</b>	<b>111,338</b>	<b>80,242</b>	<b>15,460</b>	<b>207,040</b>
<b>1991</b>						
Coastal District Survey	-	-	-	-	-	-
District 1 Survey	-	349	30	0	16	46
District 2 Survey	-	543	723	652	874	2,249
District 3 Survey	-	145	1,747	150	0	1,897
District 4 Survey	-	1,660	169,866	903	591	171,360
District 5 Survey	-	1,520	28,518	54,657	2,754	85,929
District 5 Permit b	49	400	-	-	-	11,522
District 6 Permit	220	1,980	-	-	-	19,479
<b>Totals</b>	<b>269</b>	<b>6,597</b>	<b>200,884</b>	<b>56,362</b>	<b>4,235</b>	<b>292,482</b>
<b>1992</b>						
Coastal District Survey	133	513	659	0	0	659
District 1 Survey	262	617	512	1,000	153	1,665
District 2 Survey	285	971	694	247	2,237	3,178
District 3 Survey	113	507	4,893	74	37	5,004
District 4 Survey	436	2,065	139,513	6,950	3,323	149,786
District 5 Survey	323	1,577	12,897	38,529	14,529	65,955
District 5 Permit b	52	492	-	-	-	7,026
District 6 Permit	255	2,270	-	-	-	18,115
<b>Totals</b>	<b>1,859</b>	<b>9,012</b>	<b>159,168</b>	<b>46,800</b>	<b>20,279</b>	<b>251,388</b>
<b>1993</b>						
Coastal District Survey	150	391	0	0	0	0
District 1 Survey	280	690	654	70	22	746
District 2 Survey	232	880	794	260	670	1,724
District 3 Survey	118	447	2,671	734	162	3,567
District 4 Survey	435	1,645	44,793	3,905	579	49,277
District 5 Survey	348	1,840	5,490	38,888	5,147	49,525
District 5 Permit b	54	1,031	-	-	-	1,133
District 6 Permit	143	1,857	-	-	-	1,547
<b>Totals</b>	<b>1,760</b>	<b>8,781</b>	<b>54,402</b>	<b>43,857</b>	<b>6,580</b>	<b>107,519</b>
<b>1994</b>						
Coastal District Survey	161	367	1,287	0	0	1,287
District 1 Survey	288	819	267	144	384	795
District 2 Survey	286	1,074	1,066	653	2,470	4,189
District 3 Survey	123	413	5,279	0	162	5,441
District 4 Survey c	427	1,649	92,127	4,720	2,916	99,763
District 5 Survey	355	1,426	10,903	51,674	4,422	66,999
District 5 Permit b	103	534	-	-	-	9,824
District 6 Permit	212	2,269	-	-	-	34,111
<b>Totals</b>	<b>1,955</b>	<b>8,551</b>	<b>110,929</b>	<b>57,191</b>	<b>10,354</b>	<b>222,409</b>

- Continued -

Districts Survey or Permit	Number of Households with Dogs	Number of Dogs	Summer Chum Salmon Fed to Dogs	Fall Chum Salmon Fed to Dogs	Coho Salmon Fed to Dogs	Total Salmon Fed to Dogs	a
<b>1995</b>							
Coastal District Survey	158	596	2,919	214	0	3,133	
District 1 Survey	223	391	531	43	7	581	
District 2 Survey	213	677	1,587	436	979	3,002	
District 3 Survey	111	347	8,450	265	100	8,815	
District 4 Survey	423	1,830	183,386	9,092	1,151	193,629	
District 5 Survey	356	1,442	6,222	50,680	2,107	59,009	
District 5 Permit b	54	495	-	-	-	17,980	
District 6 Permit	103	1,723	-	-	-	50,731	
<b>Totals</b>	<b>1,641</b>	<b>7,501</b>	<b>203,095</b>	<b>60,730</b>	<b>4,344</b>	<b>336,880</b>	
<b>1996</b>							
Coastal District Survey	159	406	0	0	0	0	
District 1 Survey	298	682	1,847	250	38	2,135	
District 2 Survey	251	1,044	1,460	1,724	1,423	4,607	
District 3 Survey	134	513	3,558	0	0	3,558	
District 4 Survey	468	1,607	130,575	5,771	1,324	137,670	
District 5 Survey	325	1,289	10,155	48,836	5,966	64,957	
District 5 Permit b	53	293	-	-	-	14,345	
District 6 Permit	176	1,907	-	-	-	43,590	
<b>Totals</b>	<b>1,864</b>	<b>7,741</b>	<b>147,595</b>	<b>56,581</b>	<b>8,751</b>	<b>270,862</b>	
<b>1997</b>							
Coastal District Survey	174	494	837	0	0	837	
District 1 Survey	255	683	103	0	0	103	
District 2 Survey	301	1,075	779	498	142	1,419	
District 3 Survey	111	492	11,418	400	746	12,564	
District 4 Survey	430	1,209	63,850	4,481	3,141	71,472	
District 5 Survey	254	1,146	2,943	33,188	2,961	39,092	
District 5 Permit b	95	569	-	-	-	19,584	
District 6 Permit	156	1,898	-	-	-	12,813	
<b>Totals</b>	<b>1,776</b>	<b>7,566</b>	<b>79,930</b>	<b>38,567</b>	<b>6,990</b>	<b>157,884</b>	
<b>1998</b>							
Coastal District Survey	185	503	0	0	0	0	
District 1 Survey	259	555	1,711	270	0	1,981	
District 2 Survey	293	966	682	110	137	929	
District 3 Survey	106	394	4,288	32	202	4,522	
District 4 Survey	560	1,731	14,468	3,394	1,935	19,797	
District 5 Survey	356	1,342	2,029	29,448	2,680	34,157	
District 5 Permit b	113	598	-	-	-	1,262	
District 6 Permit	136	1,610	-	-	-	22,311	
<b>Totals</b>	<b>2,008</b>	<b>7,699</b>	<b>23,178</b>	<b>33,254</b>	<b>4,954</b>	<b>84,959</b>	
<b>1999</b>							
Coastal District Survey	163	276	135	0	0	135	
District 1 Survey	252	451	254	20	25	299	
District 2 Survey	312	982	778	52	1,277	2,107	
District 3 Survey	95	374	4,153	50	240	4,443	
District 4 Survey	481	1,502	15,546	3,399	1,513	20,458	
District 5 Survey	273	1,233	1,436	38,006	3,844	41,286	
District 5 Permit b	141	739	-	-	-	11,013	
District 6 Permit	107	1,321	-	-	-	13,256	
<b>Totals</b>	<b>1,824</b>	<b>6,878</b>	<b>22,302</b>	<b>39,527</b>	<b>6,899</b>	<b>92,997</b>	

- Continued -

Districts Survey or Permit	Number of Households with Dogs	Number of Dogs	Summer Chum Salmon Fed to Dogs	Fall Chum Salmon Fed to Dogs	Coho Salmon Fed to Dogs	Total Salmon Fed to Dogs <sup>a</sup>
<b>2000</b>						
Coastal District Survey	215	451	0	0	0	0
District 1 Survey	247	552	1,240	741	0	1,981
District 2 Survey	307	941	467	30	30	527
District 3 Survey	111	374	419	150	70	639
District 4 Survey	441	1,318	4,237	846	329	5,412
District 5 Survey	236	811	1,263	5,972	1,791	9,026
District 5 Permit b d	67	568	-	-	-	317
District 6 Permit d	70	1,327	-	-	-	3,082
<b>Totals</b>	<b>1,694</b>	<b>6,342</b>	<b>7,626</b>	<b>7,739</b>	<b>2,220</b>	<b>20,984</b>
<b>2001</b>						
Coastal District Survey	234	495	0	0	0	0
District 1 Survey	318	609	223	100	0	323
District 2 Survey	331	926	255	210	80	545
District 3 Survey	114	610	873	111	25	1,009
District 4 Survey	553	2,074	4,571	2,014	1,263	7,848
District 5 Survey	293	1,026	1,649	10,629	5,976	18,254
District 5 Permit b d	121	583	-	-	-	8,065
District 6 Permit d	130	1,266	-	-	-	7,506
<b>Totals</b>	<b>2,094</b>	<b>7,589</b>	<b>7,571</b>	<b>13,064</b>	<b>7,344</b>	<b>43,550</b>
<b>2002</b>						
Coastal District Survey	207	399	0	0	67	67
District 1 Survey	282	655	14	59	30	103
District 2 Survey	327	847	221	38	379	638
District 3 Survey	88	312	620	0	0	620
District 4 Survey	437	1,502	8,286	848	697	9,831
District 5 Survey	197	677	2,256	6,324	1,393	9,973
District 5 Permit b d	81	546	-	-	-	689
District 6 Permit d	111	806	-	-	-	11,722
<b>Totals</b>	<b>1,730</b>	<b>5,744</b>	<b>11,397</b>	<b>7,269</b>	<b>2,566</b>	<b>33,643</b>
<b>1997-2001 Average</b>						
Coastal District Survey	194	444	194	0	0	194
District 1 Survey	286	570	706	226	5	937
District 2 Survey	309	978	592	180	333	1,105
District 3 Survey	107	449	4,230	149	257	4,635
District 4 Survey	493	1,567	20,534	2,827	1,636	24,997
District 5 Survey	282	1,112	1,864	23,049	3,450	28,363
District 5 Permit b	107	611	-	-	-	8,048
District 6 Permit	120	1,484	-	-	-	11,794
<b>Totals</b>	<b>1,879</b>	<b>7,215</b>	<b>28,121</b>	<b>26,430</b>	<b>5,681</b>	<b>80,075</b>

<sup>a</sup> Beginning in 1993, the estimated number of salmon includes those retained from subsistence and commercial (commercial-related) harvests. Dashes indicate information was not collected.

<sup>b</sup> Permit totals do not include the community of Stevens Village.

<sup>c</sup> Does not include the villages of Hughes, Allakaket and Alatna which were not surveyed due to a major flood event.

<sup>d</sup> Does not include duplicate information from households with more than one permit.

Appendix B.11. **Surveyed households which indicated that their subsistence salmon needs were not met, Yukon Area, 1992 to 2002.**

Year	Total Number of Households Contacted	Total Number of Responses Indicating Needs Were not Met	Percent of Responses Indicating Needs Were not Met	Percent of Responses Indicating Poor Salmon Returns
1992	870	272	31%	7%
1993	979	514	53%	8%
1994	933	345	37%	1%
1995	1,011	207	20%	1%
1996	951	230	24%	6%
1997	915	213	23%	6%
1998	970	593	61%	47%
1999	1,024	385	38%	18%
2000 <sup>a</sup>	932	592	64%	77%
2001	885 <sup>b</sup>	496	56%	73%
2002	799 <sup>b</sup>	437	55%	25%
Average 1992 to 2001	947	385	41%	24%

<sup>a</sup> A different method from prior years was used starting in 2000 to provide an indication of the quality of the salmon runs by species. The new method is a percentage is a weighted average of chinook, summer chum, fall chum, coho salmon responses from households that indicated poor salmon runs by species contributed to not meeting their needs.

<sup>b</sup> Total number of people who answered this question, rather than total number contacted.

Appendix B.12. Estimated or reported subsistence and personal use harvest of miscellaneous non-salmon fish species, Yukon Area, 1993 to 2002.

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	Five Year Average 1997 to 2001
<b>Survey Estimates<sup>a</sup></b>											
Whitefish	70,479	84,734	58,660	63,610	77,630	70,261	50,748	45,292	86,200	78,489	66,026
Pike	11,787	28,515	17,646	18,833	29,540	22,459	16,928	9,174	16,753	18,906	18,971
Sheefish	12,039	17,117	12,186	17,793	19,538	19,159	12,550	6,581	14,384	15,960	14,442
<b>Survey Reported</b>											
Burbot	316	9,181	4,602	13,654	6,381	6,704	11,545	2,168	2,836	5,809	5,927
Lamprey	2	2,565	5,122	4,630	2,533	2,580	30,536	785	4,520	623	8,191
Tomcod	2,069	1,875	4,724	4,554	6,088	5,401	2,399	2,999	7,278	4,497	4,833
Grayling	122	1,559	1,285	1,664	1,600	1,578	1,476	346	1,503	1,408	1,301
Suckers	67	304	210	191	667	128	104	364	277	546	308
Arctic Char	2	174	265	210	131	206	131	32	251	198	150
Blackfish	8,810	190,736	233,890	145,752	275,469	302,623	165,252	42,110	85,938	432,967	174,278
<b>Permit Reported</b>											
Whitefish	3,139	3,509	3,172	5,474	5,157	4,019	3,734	3,205	2,430	2,856	3,709
Pike	1,150	1,214	1,280	2,113	1,978	793	812	687	451	791	944
Sheefish	49	361	87	127	190	137	176	85	75	66	133
Burbot	66	196	187	105	215	137	101	95	124	65	134
Grayling	-	3	10	315	154	55	439	521	51	138	244
Suckers	-	68	456	1,156	858	459	986	739	236	344	656
<b>Yukon Area Totals</b>											
Whitefish	73,618	88,243	61,832	69,084	82,787	74,280	54,482	48,497	88,630	81,345	69,735
Pike	12,937	29,729	18,926	20,946	31,518	23,252	17,740	9,861	17,204	19,697	19,915
Sheefish	12,088	17,478	12,273	17,920	19,728	19,296	12,726	6,666	14,459	16,026	14,575
Burbot	382	9,377	4,789	13,759	6,596	6,841	11,646	2,263	2,960	5,874	6,061
Lamprey	2	2,565	5,122	4,630	2,533	2,580	30,536	785	4,520	623	8,191
Tomcod	2,069	1,875	4,724	4,554	6,088	5,401	2,399	2,999	7,278	4,497	4,833
Grayling	122	1,562	1,295	1,979	1,754	1,633	1,915	867	1,554	1,546	1,545
Suckers	67	372	666	1,347	1,525	587	1,090	1,103	513	890	964
Arctic Char	2	174	265	210	131	206	131	32	251	198	150
Blackfish	8,810	190,736	233,890	145,752	275,469	302,623	165,252	42,110	85,938	432,967	174,278

a Subsistence finfish estimates in surveyed communities is based on a stratified random sample of households as designated for the estimation of subsistence salmon harvests.

Appendix C. A brief history of regulatory changes made to the Yukon Area Alaskan subsistence and personal use salmon fisheries since 1960.

1960

- Alaska Department of Fish and Game is given responsibility to manage all Alaskan subsistence and commercial fisheries.
- Commercial fishing is open six days per week, subsistence fishing is open 5.5 days per week.
- Once commercial fishing season ends, subsistence fishing is open 7 days per week.

1961

- Lower Yukon Area (Districts 1 – 3) commercial fisheries are open 4 days per week.
- Directed fall chum salmon fishery begins.

1962

- Four fishing districts established on Yukon River.
- Subsistence fishing in the Lower Yukon Area is reduced to 4 days per week (concurrent with commercial).

1974

- Six commercial fishing districts established within Alaskan portion of the Yukon River drainage.
- Subsistence fishing restrictions are implemented along the southern portion of the Dalton Highway.
- Upper Yukon Area (Districts 4 – 6) begins concurrent subsistence and commercial fishing 5 days per week.
- Subsistence fishing schedules are linked to commercial fishing schedules in Districts 1-6.

1974-77

- Legalized sale of salmon roe from Yukon Area subsistence caught salmon.

1976

- Limited entry begins for Yukon River commercial fisheries.
- Streams crossing the Dalton Highway north of the Yukon River are closed to subsistence fishing.

1977

- Lower Yukon Area is reduced to subsistence/commercial fishing 3 days per week during the commercial chinook salmon season.
- Lower Yukon Area is reduced to subsistence/commercial fishing 3.5 days per week during the fall chum salmon season.

1978

- Passage of the *State of Alaska Subsistence Act*, which provides a rural subsistence priority in times of shortage.
- Commercial salmon roe fishery begins in the Upper Yukon Area.

1979

- Lower Yukon Area is reduced to subsistence/commercial fishing 3 days per week during the fall chum salmon season.

1980

- ANILCA (*Alaska National Interest Lands Conservation Act*) provides for a rural subsistence priority on Federal lands.

1980-89

- Unified management of subsistence fishing by the State of Alaska consistent with ANILCA and the *State of Alaska Subsistence Act*.

1981

- Commercial fishing periods in the Lower Yukon Area established in season by state emergency order (EO).

1982

- Tanana River Subdistrict 6-C Subsistence Management Plan established.

1983-84

- Lower Yukon Area subsistence periods established in season by EO.

1986

- Personal use fisheries created for Alaska residents living in non-rural areas. Non-rural residents are classified as “personal use” fishers rather than subsistence fishers regardless of where they fish.

1987

- Regulations for a personal use fall chum salmon fishery established in the Yukon Area.
- Regulatory *Yukon Area Fall Chum Salmon Management Plan* established.

1988

- Subdistricts 6-A, 6-B and 6-C subsistence and personal use periods are limited to two 42 hour periods per week.
- “Old Minto Area” is open to subsistence salmon fishing 5 days per week.
- Upper Tanana Area remains open to subsistence fishing 7 days per week.
- Regulations for personal use fisheries for all salmon species established in the Yukon Area.

1990

- Court case removes rural residency requirement for subsistence participation (*McDowell v. State*).
- Regulatory *Yukon River Summer Chum Salmon Management Plan* established.
- Regulatory *Tanana River Salmon Management Plan* established.

1992

- Alaska divided into subsistence and non-subsistence areas. Personal use fishing only allowed within the non-subsistence areas.
- Upper Yukon Area commercial periods established in season by EO.

1993

- Regulations implemented separating subsistence and commercial salmon fishing times in Districts 1-3 and Subdistrict 4-A (prior to 1993 subsistence and commercial periods coincided).
  - In Districts 1-3 subsistence salmon fishing is open 24 hours/day until commercial season begins. Once commercial fishing begins subsistence fishing is closed 18 hours before, during and 12 hours after each commercial period. Additional periods for subsistence salmon fishing may be authorized.
  - Subdistricts 4-B, 4-C, 5-B and 5-C subsistence salmon fishing is open 7 days per week until commercial season begins, then commercial and subsistence periods coincide. Additional periods for subsistence salmon fishing may be authorized.
  - Koyukuk River, Kantishna River and Subdistrict 5-D remain open to subsistence salmon fishing 7 days per week.
- Court case declares subsistence and non-subsistence areas are unconstitutional and subsistence salmon fishing again allowed statewide (*State v. Kenaitze Indian Tribe*).
- Regulatory *Toklat River Fall Chum Salmon Rebuilding Management Plan* established.

1994

- Subdistrict 5-A subsistence salmon fishing is allowed 5 days per week once commercial season ends.
- Regulatory *Anvik River Chum Salmon Fishery Management Plan* established.

1995

- Alaska Supreme Court reverses decision in *Kenaitze* case and Alaska is again divided into subsistence and non-subsistence areas. Personal use fishing is only allowed within the non-subsistence areas.
- Ninth Circuit Court finds that Federal jurisdiction for fisheries should be extended to navigable waters on Federal lands (*State of Alaska v. Babbitt a.k.a. Katie John decision*). US Senator Stevens delays implementation.

1998

- Subdistrict 5-A subsistence salmon fishing is allowed 7 days per week once commercial season ends.
- Regulatory *Yukon River King Salmon Management Plan* established.

1999

- Subdistrict 5-A subsistence salmon fishing is returned to 5 days per week once commercial season ends because in 1998 Toklat River escapement goals were not met.
- Regulatory *Yukon River Coho Salmon Management Plan* established.

2000

- U.S. Fish and Wildlife Service begins first season of joint subsistence fisheries management authority with ADF&G in portions of the Yukon Area.

2001

- Subsistence fishing schedule implemented throughout the entire Yukon River Area when there is no commercial fishing season:
  - Districts 1-3 area open to subsistence salmon fishing for two 36 hour periods per week.
  - District 4 and Subdistricts 5-B and 5-C are open to subsistence salmon fishing for two 48 hour periods per week.
  - Subdistrict 5-A, 6-A and 6-B (includes the Kantishna River) are open to subsistence salmon fishing for two 42 hour periods per week.
  - The "Old Minto Area" is open to subsistence salmon fishing 5 days per week.
  - The Coastal District, Koyukuk River and Subdistrict 5-D are open to subsistence salmon fishing 7 days per week.
  - Subdistrict 6-C is open to personal use salmon fishing for two 42 hour periods per week.
- Amounts necessary for subsistence defined by salmon species for Yukon Area
  - Chinook salmon: 45,500 - 66,704 fish
  - Summer chum salmon: 83,500 - 142,192 fish
  - Fall chum salmon: 89,500 - 167,100 fish
  - Coho salmon: 20,500 - 51,980 fish